DOCUMENT RESUME

ED 199 098 SE 034 544

TITLE	Federal Funds for Research and Development, Fiscal Years 1979, 1980, and 1981. Volume XXIX. Detailed Statistical Tables.
INSTITUTION	National Science Foundation, Washington, D.C. Div. of Science Resources Studies.
REPORT NO	NSF-80-318
PUB DATE	80
NOTE	186p.: Not available in hard copy due to marginal legibility of original document.
EDRS PRICE	MF01 Plus Postage. PC Not Available from EDRS.
DESCRIPTORS	*Annual Reports: Federal Aid: *Federal Government: Federal Legislation: *Financial Support: Institutional Research: Research: *Research and Development Centers: *Scientific Research

ABSTRACT

Presented are detailed statistical tables showing research and development (R&D) levels for the fiscal years 1979, 1980, and 1981, reported by 95 federal agencies in the 1979 March-May period. In the tables, data for 1979 are considered to be actual: data for 1979 and 1980 are estimated. Historical data for the years 1971-1981 are contained in an appendix, reflecting a current revision of prior-year data in order to enhance the reliability of the data. This document reports funding for all agencies with R&D programs. R&D totals are given in the tables in both outlays and obligations, and the R&D obligational data are distributed by character cf work, performer, field of science, and federal R&D support by states. Research performed at universities and colleges by fields of science and R&D plant data are also provided. (CS)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
NATIONAL INSTITUTE OF
EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

ED 034 844

contents

Page

General Notes ii

Appendixes

- A. Technical Notes 1
- B. Federally Funded Research and Development Centers, Fiscal Years 1979-81 8
- C. Detailed Statistical Tables 10

NOTE: For trend comparisons use only the historical data contained in tables C-106 through C-128 in this *Federal Funds*, Volume XXIX series. Do *not* use data published earlier. These tables incorporate changes made by the agencies in prior-year data to reflect various program reclassifications.

general notes

The tables in appendix C have been derived from the *Federal Funds for Research and Development, Volume XXIX* survey. This survey represents a later and more detailed classification of the R&D portion of the Federal budget than the tables that appeared in a chapter of *Special Analyses, Budget of the United States Government, Fiscal Year 1981*, "Special Analyses K: Research and Development" and a later Office of Management and Budget (OMB) paper entitled "Research and Development Revisions to the Fiscal Year 1981 Budget," dated April 17, 1980. The data in the appendix tables show R&D funding levels as reported by 95 Federal agencies in the March-May period of 1980 following the President's budget message in January and the later budget revisions. All agencies with R&D programs are covered. R&D totals are given in both outlays and obligations, and the R&D obligational data are distributed by character of work, performer, field of science (for research but not development), and Federal R&D support by State. Research performed at universities and colleges by field of science is also shown. R&D plant data are further provided.

The amounts reported for each year of this survey include the obligations or outlays incurred in that year, regardless of the time the funds may have been authorized, appropriated, or received by an agency and regardless of whether or not the funds are identified in an agency's budget specifically for research, development, or R&D plant.

In the tables, data for 1979 are considered to be actual since they represent virtually completed transactions. Data for 1980 and 1981 are estimated since they do not represent final actions. Because the timing of the *Federal Funds* survey coincided with the second quarter of fiscal year 1980, the amounts reported for 1980 reflect congressional appropriation actions prior but not subsequent to this period and they do not reflect later appropriation, apportionment, and reprogramming decisions. They do not reflect congressional action on proposed rescissions. The amounts reported for 1981 are subject to the whole cycle of congressional authorization and appropriation actions and subsequent executive apportionment. The effects of these actions will be reflected in later surveys and reports in this series.

It is important to note that judgment must often be used by the agencies in classifying the data. Most R&D programs have to be separated by respondents from larger programs since they are not identified as budget line items. Also, an element of respondent judgment is involved in decisions as to which areas constitute basic research, applied research, development, and various fields of science.

Other limitations to the data should be noted. R&D plant data are understated because of the difficulty encountered by some agencies in identifying R&D plant within contracts for research and development. The Department of Defense (DOD) can identify only limited portions of R&D plant in contracts funded from the RDT&E appropriation. The National Aeronautics and Space Administration (NASA) faces a similar problem in reporting R&D plant data.

Despite the fact that the differences between the *Federal Funds* requirements and the internal reporting systems of many agencies often call for judgment, the reporting experience of most agencies and their interaction over the years with the National Science Foundation (NSF) staff have worked to enhance the reliability of the data. Sometimes revisions in reporting concepts are important enough to warrant revisions of prior-year data by agencies. **Therefore, only the historical data contained in appendix C (tables C-108 through C-128) should be used and not those in previously published appendix tables.**

The report, *Federal Funds for Research and Development, Volume XXIX* will be published at a later date. It will contain an analysis of the R&D portion of the 1981 Federal budget, comparing Federal R&D support with broader economic indicators and describing and analyzing various aspects of current R&D programs. One portion of the report will be an R&D analysis by budget function. The report will provide a number of summary tables and charts but will not include the detailed statistical tables contained in this volume.

Inquiries relating to *Federal Funds*, Volume XXIX should be directed to the National Science Foundation, Division of Science Resources Studies, Washington, D.C. 20550. Telephone: (202) 634-4636.

technical notes

scope and method

During the March-May 1980 period a total of 39 Federal agencies and their subdivisions—95 individual respondents—submitted data in response to the *Annual Survey of Federal Funds for Research and Development, Volume XXIX*, developed by the National Science Foundation (NSF) and distributed in January 1980. In nearly all cases the data received from the agencies were in terms of obligations and outlays incurred, or expected to be incurred, regardless of when the funds were appropriated or whether they were identified in the respondents' budgets specifically for R&D activities. The exception was the National Aeronautics and Space Administration (NASA), for which the same kinds of transactions were reported in terms of budget plan, which approximates obligations.

Federal agencies provided R&D data earlier to the Office of Management and Budget (OMB) for inclusion in "Special Analysis K: Research and Development" in *The Budget of the United States Government, Fiscal Year 1981*, which was part of the budget document presented to the Congress in January 1980. The administration later reduced a number of programs with the goal of producing a budget surplus as a counterinflationary measure. OMB issued a paper, "Research and Development Revisions to the Fiscal Year 1981 Budget," dated April 17, 1980, summarizing proposed rescissions in fiscal year 1980 R&D programs and budget amendments to fiscal year 1981 R&D programs for leading R&D support agencies. The agencies, in reporting to the *Federal Funds* survey for fiscal years 1979, 1980, and 1981, incorporated these revisions. The R&D data in the OMB documents and in the *Federal Funds* survey were based on the same definitions and are reconcilable, but the data in the *Federal Funds* survey cover smaller R&D support agencies not covered by OMB and are classified in greater detail.

definitions

The definitions are essentially unchanged from prior *Federal Funds* surveys.

1. research, development, and r&d plant

This heading includes all direct, indirect, incidental, or related costs resulting from or necessary to research development, and R&D plant, regardless of whether the research and development are performed by a Federal agency (intramurally) or performed by private individuals and organizations under grant or contract (extramurally). Research and development exclude routine product testing, quality control, mapping and surveys, collection of general-purpose statistics, experimental production, and the training of scientific personnel.

a. **Research** is systematic study directed toward fuller scientific knowledge or understanding of the subject studied. Research is classified as either basic or applied according to the objectives of the sponsoring agency.

In **basic research** the objective of the sponsoring agency is to gain fuller knowledge or understanding of the fundamental aspects of phenomena and of observable facts without specific applications toward processes or products in mind.

In **applied research** the objective of the sponsoring agency is to gain knowledge or understanding necessary for determining the means by which a recognized and specific need may be met.

b. **Development** is systematic use of the knowledge or understanding gained from research, directed toward the production of useful materials, devices, systems, or methods, including design and development of prototypes and processes. It excludes quality control, routine product testing, and production.

c. **R&D plant** (R&D facilities and fixed equipment, such as reactors, wind tunnels, and radio telescopes) includes acquisition of, construction of, major repairs to, or alterations in structures, works, equipment, facilities, or land, for use in R&D activities at Federal or non-Federal installations. Excluded from the R&D plant category are expendable equipment and office furniture and equipment. Obligations for foreign R&D plant are limited to Federal funds for facilities located abroad and used in support of foreign research and development.

2. obligations and outlays

a. **Obligations** represent the amounts for orders placed, contracts awarded, services received, and similar transactions during a given period, regardless of when the funds were appropriated and when future payment of money is required.

b. **Outlays** represent the amounts for checks issued and cash payments made during a given period, regardless of when the funds were appropriated.

The obligations and outlays reported cover all transactions from all funds available to an agency from direct appropriations, trust funds, or special account receipts, corporate income, or other sources, including funds appropriated by the President, that the agency has received or expects to receive. The amounts reported for each year reflect obligations and outlays for that year regardless of when the funds were originally authorized or received and regardless of whether they were appropriated, received, or identified in the agency's budget specifically for research, development, or R&D plant.

An agency making a transfer of funds to another agency includes such transfers in its report of obligations and outlays. The receiving agency does not report, for purposes of this survey, funds transferred to it from another agency. Similarly, a subdivision of an agency that transfers funds to another subdivision within that agency reports such obligations or outlays as its own.

Obligations and outlays for work performed in foreign countries include funds directly available to Federal agencies and special foreign currencies separately appropriated. The latter currencies are derived largely from provisions of Public Law 480, 1954, as amended.

3. cost coverage

Funds reported for research and development reflect full costs. In addition to costs of specific R&D projects, the applicable overhead costs are also included. The amounts reported include the costs of planning and administering R&D programs, laboratory overhead, pay of military personnel, and departmental administration.

4. fiscal year

The fiscal year in the Federal Government accounting period begins October 1 of a given year and ends September 30 of the following year; thus, fiscal year 1979 began on October 1, 1978 and ended September 30, 1979.

5. agency

An agency is an organization of the Federal Government whose principal executive officer reports to the President. The only exception is the Library of Congress, also included in the survey, whose executive officer reports to the Congress. The term subdivision refers to any major organizational unit of a reporting agency, such as a bureau, division, office, or service.

6. performers

Performers are either *intramural* organizations accomplishing operating functions or *extramural* organizations or persons receiving support or providing services under a contract or grant.

a. **Intramural performers:** Agencies of the Federal Government. Their work is carried on directly by their own personnel. Obligations reported under this category are for activities performed directly by a reporting agency, or they represent funds that the agency transfers to another Federal agency for performance of work. The ultimate performer must be a Federal agency. If the ultimate performer is *not* a Federal agency, the funds so transferred are reported by the transferring agency under the appropriate extramural performer category (industrial firms, universities, and colleges, other nonprofit institutions). Intramural performance includes the costs of supplies and equipment, essentially of an "off-the-shelf" nature, that are procured for use in intramural research and developoment.

Also included as part of the intramural performance total are the expenses of Federal personnel engaged in planning and administering intramural and extramural R&D programs.

b. **Extramural performers:** All organizations outside the Federal sector that perform with Federal funds under contract or grant. Only those costs associated with actual extramural R&D performance are reported, but these would include costs of materials and supplies to carry out R&D activities. Note that costs of "off-the-shelf" supplies and equipment procured from extramural suppliers and required to support intramural research and development should be considered as part of the costs of intramural performance and not as part of the costs of extramural performance. Extramural performers are identified as follows:

i. **Industrial firms:** Those organizations that may legally distribute net earnings to individuals or to other organizations.

ii. **Universities and colleges:** Institutions engaged primarily in providing resident and/or accredited instruction for at least a 2-year program above the secondary school level. Included are colleges of liberal arts; schools of arts and sciences; professional schools, as in engineering and medicine, including affiliated hospitals; associated research institutes; and agricultural experiment stations.

iii. **Other nonprofit institutions:** Private organizations other than educational institutions, no part of whose net earnings inure to the benefit of a private stockholder or individual, and other private organizations organized for the exclusive purpose of turning over their entire net earnings to such nonprofit institutions.

iv. **Federally funded research and development centers (FFRDC's):** R&D-performing organizations exclusively or substantially financed by the Federal Government that are supported by the Federal Government either to meet a particular R&D objective or, in some instances, to provide major facilities at universities for research and associated training purposes. Each center is administered by one of the above types of extramural performer.

In general, all of the following criteria are met by an institutional unit before it is included in the federally funded research and development center category: (1) Its primary activities include one or more of the following: Basic research, applied research, development, or management of research and development (specifically excluded are organizations engaged primarily in routine quality control and testing, routine service activities, production, mapping and surveys, and information dissemination); (2) it is a separate operational unit within the parent organization or is organized as a separately incorporated organization; (3) it performs actual research and development or R&D management either upon direct request of the Federal Government or under a broad charter from the Federal Government, but in either case under the direct monitorship of the Federal Government; (4) it receives its major financial support (70 percent or more) from the Federal Government, usually from one agency; (5) it has, or is expected to have, a long-term relationship with its sponsoring agency (about five years or more), as evidenced by specific obligations assumed by it and the agency; (6) most or all of its facilities are owned or are funded under contract with the Federal Government; and (7) it has an average annual budget (operating and capital equipment) of at least $500,000.

v. **State and local governments:** State and local government agencies, excluding State and local universities and colleges, agricultural experiment stations, medical schools, and affiliated hospitals. (Federal R&D funds obligated directly to such State and local educational institutions are included under the universities and colleges category in this survey.) Research and development under the State and local government category are performed either directly by State or local agencies or by other organizations under grants or contracts from such agencies. Regardless of the ultimate performer, Federal R&D funds directed to State and local governments are reported under the State and local government category and no other.

vi. **Foreign performers:** Foreign citizens, organizations, or governments, as well as international organizations, such as NATO, UNESCO, WHO, performing work abroad financed by the Federal Government. Excluded are payments to U.S. agencies, organizations, or citizens performing research and development abroad for the Federal Government; the survey does not seek information on "offshore" payments. Also excluded are payments to foreign scientists performing in the United States.

vii. **Private individuals:** Individuals receiving a Federal R&D grant or contract award directly; in this case obligations are reported under "industrial firms."

7. fields of science

The fields of science in this survey are divided into eight broad field categories, each of them consisting of a number of detailed fields. The broad fields are life sciences, psychology, physical sciences, environmental sciences, mathematics and computer sciences, engineering, social sciences, and other sciences not elsewhere classified. The following listing presents the fields grouped under each of the broad fields, together with illustrative disciplines.

a. **Life sciences** consist of five detailed fields: biological (excluding environmental), environmental biology, agricultural, medical, and life sciences not elsewhere classified. The illustrative disciplines provided below under each of these detailed fields are not intended to be sharp definitions; they represent examples of disciplines generally classified under a given detailed field. A discipline, however, may be classified under another detailed field when the major emphasis is elsewhere. Research in biochemistry could be reported as biological, agricultural, or medical, depending on the orientation of the project. Human biochemistry would be classified under biological, but animal biochemistry or plant biochemistry would be under agricultural.

Examples of disciplines under each of the detailed fields are as follows:

Biological (excluding environmental): anatomy; biochemistry; biology; biometry and biostatistics; biophysics; botany; cell biology; entomology and parasitology; genetics; microbiology; neuroscience (biological); nutrition; physiology; zoology; other biological, n.e.c.[1]

Environmental biology: ecosystem sciences; evolutionary biology; limnology; physiological ecology; population biology; population and biotic community ecology; systematics; other environmental biology, n.e.c.[1]

Agricultural: agronomy; animal sciences; food science and technology; fish and wildlife; forestry; horticulture; plant sciences; soils and soil science; phytopathology; phytoproduction; agriculture, general; other agriculture, n.e.c.[1]

Medical: internal medicine; neurology; obstetrics and gynecology; ophthalmology; otolaryngology; pediatrics; preventive medicine; pathology; pharmacology; psychiatry; radiology; surgery; dentistry; pharmacy; veterinary medicine; other medical, n.e.c.[1]

Life sciences, n.e.c.[1]

b. **Psychology** deals with behavior, mental processes, and individual and group characteristics and abilities. Psychology is divided into three categories: biological aspects, social aspects, and psychological sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Biological aspects: experimental psychology; animal behavior; clinical psychology; comparative psychology; ethology.

Social aspects: social psychology; educational, personnel, vocational psychology, and testing; industrial and engineering psychology; development and personality.

Psychological sciences, n.e.c.[1]

c. **Physical sciences** are concerned with understanding of the material universe and its phenomena. They comprise the fields of astronomy, chemistry, physics, and physical sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Astronomy: laboratory astrophysics; optical astronomy; radio astronomy; theoretical astrophysics; X-ray, Gamma-ray, neutrino astronomy.

Chemistry: inorganic; organo metallic; organic; physical.

Physics: acoustics; atomic and molecular; condensed matter; elementary particle; nuclear structure; optics; plasma.

Physical sciences, n.e.c.[1]

d. **Environmental sciences** (terrestrial and extraterrestrial) are concerned (with one exception) with the gross nonbiological properties of the areas of the solar system that directly or indirectly affect man's survival and welfare; they comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences not elsewhere classified. The one exception is that obligations for studies pertaining to life in the sea, or other bodies of water, are reported as support of oceanography and not biology. Examples of disciplines under each of these fields are as follows:

Atmospheric sciences: aeronomy; solar; weather modification; extraterrestrial atmospheres; meteorology.

Geological sciences: engineering geophysics; general geology; geodesy and gravity; geomagnetism; hydrology; inorganic geochemistry; isotopic geochemistry; organic geochemistry; laboratory geophysics; paleomagnetism; paleontology; physical geography and cartography; seismology; soil sciences.

Oceanography: biological oceanography; chemical oceanography; physical oceanography; marine geophysics.

Environmental sciences, n.e.c.[1]

e. **Mathematics and computer sciences** employ logical reasoning with the aid of symbols and are concerned with the development of methods of operation employing such symbols, and in the case of computer sciences, with the application of such methods to automated information systems. Examples of disciplines under each of these fields are as follows:

Mathematics: algebra; analysis; applied mathematics; foundations and logic; geometry; numerical analysis; statistics; topology.

Computer sciences: programming languages; computer and information sciences (general); design development, and application of computer capabilities to data storage and manipulation; information sciences and systems; systems analysis.

Mathematics and computer sciences, n.e.c.[1]

f. **Engineering** is concerned with studies directed toward developing engineering principles or toward making specific scientific principles usable in engineering practice. Engineering is divided into eight fields: aeronautical, astronautical, chemical, civil, electrical, mechanical, metallurgy and materials, and engineering not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Aeronautical: aerodynamics.

Astronautical: aerospace; space technology.

Chemical: petroleum; petroleum refining; process.

Civil: architectural; hydraulic, hydrologic; marine; sanitary and environmental; structural; transportation.

Electrical: communication; electronic; power.

Mechanical: engineering mechanics.

Metallurgy and materials: ceramic; mining; textile; welding.

Engineering, n.e.c.[1] agricultural; industrial and management; nuclear; ocean engineering systems.

g. **Social sciences** are directed toward an understanding of the behavior of social institutions and groups and of individuals as members of a group. These sciences include anthropology, economics, political science, sociology, and social sciences not elsewhere classified. Examples of disciplines under each of these fields are as follows:

Anthropology: archaeology; cultural and personality; social and ethnology; applied anthropology.

Economics: econometrics and economic statistics; history of economic thought; international economics; industrial, labor, and agricultural economics; macroeconomics; microeconomics; public finance and fiscal policy; theory; economic systems and development.

Political science: area or regional studies; comparative government; history of political ideas; international relations and law; national political and legal systems; political theory; public administration.

Sociology: comparative and historical; complex organizations; culture and social structure; demography; group interactions, social problems and social welfare; sociological theory.

Social sciences, n.e.c.[1] linguistics; research in education; research in history; socioeconomic geography; research in law, e.g., attempts to assess the impact on society of legal systems and practices.

h. **Other sciences not elsewhere classified** includes multidisciplinary and interdisciplinary projects that cannot be classified within one of the broad fields of science.

8. geographic distribution of 1979 r&d obligations

a. Ten agencies participated in the survey covering the geographic distribution of obligations for research and development and R&D plant. These 10 agencies accounted for 97 percent of total Federal R&D and R&D plant obligations in 1979. The respondents were the Departments of Agriculture; Commerce; Defense; Energy; Health and Human Services; the Interior; and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; and the National Science Foundation.

b. Data were requested for the "actual" year 1979 in terms of the principal location (State or outlying area) where the work was performed by the prime contractor, grantee, or intramural organization. Where this information was not available in their records, the respondents were asked to assign the obligations to the State, outlying area, or office abroad where the U.S. prime contractor, grantee, or intramural organization was located.

c. Obligations were reported for research and development as a combined amount.

d. Specifically omitted from the geographic survey were R&D obligations to foreign performers and obligations for R&D plant used in support of foreign performers. Foreign performer data, by country, are reported in another part of the *Federal Funds* survey.

changes in reporting

Responses from the agencies in this survey, as in the previous ones, reflect revisions of estimates for the latest two years of the previous report. Such revision is part of the budgetary cycle. From time to time responses also reflect reappraisals and revisions in classification of various aspects of agencies' R&D programs. When this occurs, NSF requires the agencies to provide revised prior-year data to maintain consistency and comparability with the most recent concepts.

limitations of the data

Funds for research and development are reported on a 3-year basis comparable with the 1981 budget, upon which the data are based. The respondents have reconciled the data reported here with amounts for research and development provided to OMB for the 1981 budget and later revised. The amounts reported for each year, as already stated, are the obligations or outlays incurred in that year, regardless of when the funds were authorized or received by an agency and regardless of whether or not the funds were identified in the agency's budget specifically for research, development, and/or R&D plant.

Data submitted by the Federal agencies for 1979 are considered to be actual since they represent virtually completed transactions. Amounts reported for 1980 and 1981 are estimates in that they are subject to further appropriation, apportionment, or allocation decisions. The effects of those and other, later actions on 1980 and 1981 outlays and obligations will be reflected in the next report.

It should be noted that respondent judgment is often necessary in classifying the data. Most agency R&D programs must be separated by agency respondents from other, larger programs because they are not identified as budget line items. R&D programs, once identified, must then be further subdivided into the survey categories: Basic research, applied research, development, performers, and fields of science. The participating agencies, however, have over the years developed increasing skill and consistency in meeting the survey requirements. When changes have been made in agency reporting concepts, revisions have been incorporated into the historical data to improve the comparability and consistency of the statistical series.

Some agencies have not been able to report the full cost of research and development. For example, the headquarters costs of planning and administering R&D programs of the Department of Defense (DOD) (estimated at a fraction of 1 percent of the DOD R&D total) are not included because this agency has stated that identification of the amounts is impracticable.

R&D plant data are also to some extent underreported because of the difficulty encountered by some agencies, particularly DOD and NASA, in identifying and reporting these data. While DOD reports obligations for R&D plant under the construction appropriation, DOD is able to identify only a small portion of the R&D plant support within R&D contracts funded from the RDT&E appropriation. NASA cannot separately identify those portions of industrial R&D contracts applicable to R&D plant but subsumes R&D plant data in the R&D data covering industrial performance, although R&D plant data for other performing sectors are reported.

---

[1] **Not elsewhere classified: Includes multidisciplinary projects within a broad field and single-discipline projects for which a separate field has not been assigned.**

9

relation to other reports

1. federal support to universities and colleges

NSF conducts a separate survey covering Federal support to individual colleges and universities. This survey is based on data provided by the Federal agencies under the reporting system established by the Committee on Academic Science and Engineering (CASE) of the Federal Council for Science and Technology. The reports resulting from these surveys are entitled *Federal Support to Universities, Colleges, and Selected Nonprofit Institutions* and often are referred to as the CASE reports.

Both the CASE and *Federal Funds* reports provide data on Federal obligations for research and development and R&D plant to universities and colleges and to university-administered federally funded research and development centers (FFRDC's). The CASE report, however, is based on obligations of Federal agencies to each individual academic institution, while the *Federal Funds* report is concerned with obligations to universities and colleges as a performer group. The CASE report additionally includes funds for non-R&D activities, such as science education and nonscience support. Further, the CASE survey is based on reports of only 14 agencies (the Departments of Agriculture; Commerce; Defense; Energy; Health and Human Services; Housing and Urban Development; the Interior; Labor; and Transportation; the Environmental Protection Agency; the National Aeronautics and Space Administration; the National Science Foundation; the Agency for International Development; and the Nuclear Regulatory Commission) while the *Federal Funds* survey is composed of obligations of all agencies. The 14 respondents to CASE, however, account for more than 99 percent of total Federal R&D support to universities and colleges and all obligations to university-administered FFRDC's.

The different reporting procedures have led to the reporting of different totals to the CASE and *Federal Funds* surveys, as follows:

a. The obligations for research and developoment to universities and colleges reported for *Federal Funds* in 1979 amounted to $3,888 million, or $72 million more than the amount reported for CASE. Most of this difference can be attributed to variations in the amounts reported by the National Institutes of Health (NIH). The *Federal Funds* R&D total for NIH included funds for General Research Support grants, whereas for the CASE survey these were placed under the category of "general support for science," which is a non-R&D area under the CASE definition. Other, smaller differences were found in the amounts reported by NSF, the Department of Agriculture, and the Department of the Interior.

b. The R&D obligation total for university-administered FFRDC's, as reported to *Federal Funds*, was $1,511 million in 1979, or $87 million less than reported for CASE. For *Federal Funds* $120 million subcontracted by the NASA university-administered Jet Propulsion Laboratory was included in ultimate-performer categories, while for CASE the subcontracted amount was included in the R&D obligations to FFRDC's administered by universities.

c. Total R&D plant obligations to universities and colleges reported to the *Federal Funds* survey were $42 million in 1979, or $10 million more than the amount reported to the CASE survey.

d. Total R&D plant obligations to university-administered FFRDC's, as reported to *Federal Funds*, were $414 million in 1979, or $83 million more than reported to CASE.

The following factors should also be considered in comparing the data appearing in the two reports:

For *Federal Funds* each agency includes as part of its obligations the amounts transferred to other agencies for R&D activities. A receiving agency does not report funds transferred from another agency. In the CASE survey, by contrast, the data are reported by the agency that makes the *final* distribution of the funds to a given institution. Thus, for the CASE survey, agencies include funds received from other agencies and exclude funds transferred to other agencies, the reverse of the *Federal Funds* process. While such transfers should balance each other out with no resulting changes in total R&D obligations, these reverse reporting practices add to the possibility of differences between the two reports.

The CASE responses are in many cases prepared by different operating units within each agency from those that prepare the *Federal Funds* responses. The CASE data are also collected several months earlier than the *Federal Fund* data. In theory, although these conditions should not add to reporting differences, in practice differences can arise.

2. special analyses, budget of the united states

In a section of *Special Analyses, Budget of the United States Government*, OMB publishes estimates of obligations and outlays for research, development, and R&D plant. These data, as shown in "Special Analysis K: Research and Development" in the 1981 budget, do not provide as much detail on character of work and performers as *Federal Funds* data, and they do not include information on fields of science or geographic distribution.

"Special Analysis K" and *Federal Funds* utilize the same definitions for research and development and for R&D plant. The estimates for research and development published in the two reports are comparable, even though minor differences exist. The comparison between the two reports is as follows:

Total Federal R&D obligations
[Billions of dollars]

	FY 1979	FY 1980	FY 1981
Federal Funds	$ 29.0	$ 31.9	$ 35.5
Special Analysis K (revised)	29.0	31.9	35.4

3. federal r&d funding by budget function: fiscal years 1979-81

NSF published a special report under the above title, providing an analysis of Federal R&D programs by budget function categories. *Federal Funds, Volume XXIX*, by contrast, reports on R&D funding by agencies rather than functional categories. The *Federal Funds* report provides obligational data rather than budget authority data, which formed the basis for the function report. The R&D budget authority data for 1979-81 in the function report were based on information provided to OMB by the agencies as background for "Special Analysis K" in the 1981 budget plus revised data, submitted later, embodying budget changes. Further program information was based on budget and budget amendment justification documents of the leading R&D support agencies and information provided directly to NSF by some of the smaller agencies.

4. other reports

a. Agencies may classify their R&D programs for purposes other than those for which the *Federal Funds* survey is conducted. Definitions and guidelines that are suitable to these other purposes may result in information that is not comparable with the data transmitted to NSF for *Federal Funds*.

appendix b

federally funded research and development centers, fiscal years 1979-81

department of defense

office of the secretary of defense

Administered by other nonprofit institutions:

Institute for Defense Analyses (IDA), Arlington, VA

department of the navy

Administered by universities and colleges:

Center for Naval Analyses (University of Rochester), Arlington, VA

department of the air force

Administered by universities and colleges:

Lincoln Laboratory (Massachusetts Institute of Technology), Lexington, MA

Administered by other nonprofit institutions:

Aerospace Corporation, El Segundo, CA

C^3 Division, MITRE Corporation, Bedford, MA

Project Air Force, RAND Corporation, Santa Monica, CA

department of health and human services

national institutes of health

Administered by industrial firms:

Frederick Cancer Research Center (Litton Bionetics, Inc., Litton Industries), Frederick, MD

department of energy

Administered by industrial firms:

Bettis Atomic Power Laboratory (Westinghouse Electric Corp.), Pittsburgh, PA

Hanford Engineering Development Laboratory (Westinghouse-Hanford Corp.), Richland, WA

Idaho National Engineering Laboratory (Aerojet Nuclear Corp.), Idaho Falls, ID

Knolls Atomic Power Laboratory (General Electric Company), Schenectady, NY

Liquid Metal Engineering Center (Rockwell International Corporation), Santa Susana, CA

Mound Laboratory (Monsanto Research Corp.), Miamisburg, OH

Oak Ridge National Laboratory (Union Carbide Corp.), Oak Ridge, TN

Sandia Laboratory (Western Electric Co., Inc.-Sandia Corp.), Albuquerque, NM

Savannah River Laboratory (E.I. duPont de Nemours & Co., Inc.), Aiken, SC

Administered by universities and colleges:

Ames Laboratory (Iowa State University of Science and Technology), Ames, IO

Argonne National Laboratory (University of Chicago and Argonne Universities Assn.), Argonne, IL

Brookhaven National Laboratory (Associated Universities, Inc.), Upton, Long Island, NY

E. O. Lawrence Berkeley Laboratory (University of California), Berkeley, CA

E. O. Lawrence Livermore Laboratory (University of California), Livermore, CA

Fermilab (Universities Research Association, Inc.), Batavia, IL

Los Alamos Scientific Laboratory (University of California), Los Alamos, NM

Oak Ridge Institute of Nuclear Studies (Oak Ridge Associated Universities), Oak Ridge, TN

Plasma Physics Laboratory (Princeton University), Princeton, NJ

Stanford Linear Accelerator Center (Stanford University), Stanford, CA

Administered by other nonprofit institutions:

Pacific Northwest Laboratory (Battelle Memorial Institute), Richland, WA

Solar Energy Research Institute (Midwest Research Institute), Golden, CO

national aeronautics and space administration

Administered by universities and colleges:

Jet Propulsion Laboratory (California Institute of Technology), Pasadena, CA

national science foundation

Administered by universities and colleges:

Cerro Tololo Inter-American Observatory (Association of Universities for Research in Astronomy, Inc.), La Serena, Chile

Kitt Peak National Observatory (Association of Universities for Research in Astronomy, Inc.), Tucson, AZ

National Astronomy and Ionosphere Center (Cornell University), Arecibo, PR

National Center for Atmospheric Research (University Corporation for Atmospheric Research), Boulder, CO

National Radio Astronomy Observatory (Associated Universities, Inc), Green Bank, WV

Sacramento Peak Observatory (Association of Universities for Research in Astronomy, Inc.), Sunspot, NM

appendix c

detailed statistical tables

Research, Development, and R&D Plant

C-1. Overall summary: FY 1979, 1980, and 1981 14
C-2. By agency: FY 1979, 1980, and 1981 16

Research and Development—Agency, Character of Work, and Performer

C-3. By agency: FY 1979, 1980, and 1981 18
C-4. By agency and character of work: FY 1979 20
C-5. By agency and character of work: FY 1980 (est.) 22
C-6. By agency and character of work: FY 1981 (est.) 24
C-7. By agency and performer: FY 1979 26
C-8. By agency and performer: FY 1980 (est.) 28
C-9. By agency and performer: FY 1981 (est.) 30

Total Research—Agency, Performer, and Field of Science

C-10. By agency and performer: FY 1979 32
C-11. By agency and performer: FY 1980 (est.) 34
C-12. By agency and performer: FY 1981 (est.) 36
C-13. By detailed field of science: FY 1979, 1980 and 1981 38
C-14. By agency and field of science: FY 1979 39
C-15. By agency and field of science: FY 1980 (est.) 41
C-16. By agency and field of science: FY 1981 (est.) 43
C-17. Psychology and life sciences, by agency and detailed field of science: FY 1979 45
C-18. Psychology and life sciences, by agency and detailed field of science: FY 1980 (est.) 46
C-19. Psychology and life sciences, by agency and detailed field of sciences: FY 1981 (est.) 47
C-20. Physical and environmental sciences, by agency and detailed field of science: FY 1979 48
C-21. Physical and environmental sciences, by agency and detailed field of science: FY 1980 (est.) ... 49
C-22. Physical and environmental sciences, by agency and detailed field of science: FY 1981 (est.) ... 50
C-23. Engineering, by agency and detailed field of science: FY 1979 51
C-24. Engineering by agency and detailed field of science: FY 1980 (est.) ... 52
C-25. Engineering, by agency and detailed field of science: FY 1981 (est.) ... 53
C-26. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1979 54
C-27. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1980 (est.) 56
C-28. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1981 (est.) 58

Basic Research—Agency, Performer, and Field of Science

C-29. By agency and performer: FY 1979 60
C-30. By agency and performer: FY 1980 (est.) 61
C-31. By agency and performer: FY 1981 (est.) 62
C-32. By detailed field of science: FY 1979, 1980, and 1981 63
C-33. By agency and field of science: FY 1979 64
C-34. By agency and field of science: FY 1980 (est.) 65
C-35. By agency and field of science: FY 1981 (est.) 66
C-36. Psychology and life sciences, by agency and detailed field of science: FY 1979 67
C-37. Psychology and life sciences, by agency and detailed field of science: FY 1980 (est.) 68
C-38. Psychology and life sciences, by agency and detailed field of science: FY 1981 69
C-39. Physical and environmental sciences, by agency and detailed field of science: FY 1979 70
C-40. Physical and environmental sciences, by agency and detailed field of science: FY 1980 (est.) ... 71
C-41. Physical and environmental sciences, by agency and detailed field of science: FY 1981 (est.) ... 72
C-42. Engineering, by agency and detailed field of science: FY 1979 73
C-43. Engineering, by agency and detailed field of science: FY 1980 (est.) ... 74
C-44. Engineering, by agency and detailed field of science: FY 1981 (est.) ... 75
C-45. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1979 76
C-46. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1980 (est.) 77
C-47. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1981 (est.) 78

Applied Research—Agency, Performer, and Field of Science

C-48. By agency and performer: FY 1979 ... 79
C-49. By agency and performer: FY 1980 (est.) ... 81
C-50. By agency and performer: FY 1981 (est.) ... 83
C-51. By detailed field of science: FY 1979, 1980, and 1981 ... 85
C-52. By agency and field of science: FY 1979 ... 86
C-53. By agency and field of science: FY 1980 (est.) ... 88
C-54. By agency and field of science: FY 1981 (est.) ... 90
C-55. Psychology and life sciences, by agency and detailed field of science: FY 1979 ... 92
C-56. Psychology and life sciences, by agency and detailed field of science: FY 1980 (est.) ... 93
C-57. Psychology and life sciences, by agency and detailed field of science: FY 1981 (est.) ... 94
C-58. Physical and environmental sciences, by agency and detailed field of science: FY 1979 ... 95
C-59. Physical and environmental sciences, by agency and detailed field of science: FY 1980 (est.) ... 96
C-60. Physical and environmental sciences, by agency and detailed field of science: FY 1981 (est.) ... 97
C-61. Engineering, by agency and detailed field of science: FY 1979 ... 98
C-62. Engineering, by agency and detailed field of science: FY 1980 (est.) ... 99
C-63. Engineering, by agency and detailed field of science: FY 1981 (est.) ... 100
C-64. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1979 ... 101
C-65. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1980 (est.) ... 103
C-66. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1981 (est.) ... 105

Development—Agency and Performer

C-67. By agency and performer: FY 1979 ... 107
C-68. By agency and performer, FY 1980 (est.) ... 109
C-69. By agency and performer: FY 1981 (est.) ... 111

R&D Plant

C-70. By agency: FY 1979, 1980, and 1981 ... 113
C-71. By agency and performer of the R&D the plant supports: FY 1979 ... 114
C-72. By agency and performer of the R&D the plant supports: FY 1980 (est.) ... 115
C-73. By agency and performer of the R&D the plant supports: FY 1981 (est.) ... 116

Total Research Performed at Universities and Colleges—Agency and Field of Science

C-74. By detailed field of science: FY 1979, 1980, and 1981 ... 117
C-75. By agency and field of science: FY 1979 ... 118
C-76. Psychology and life sciences, by agency and detailed field of science: FY 1980 ... 119
C-77. Physical and environmental sciences, by agency and detailed field of science: FY 1979 ... 119
C-78. Engineering, by agency and detailed field of science: FY 1979 ... 120
C-79. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1979 ... 121

Basic Research Performed at Universities and Colleges—Agency and Field of Science

C-80. By detailed field of science: FY 1979, 1980, and 1981 ... 122
C-81. By agency and field of science: 1979 ... 123
C-82. Psychology and life sciences, by agency and detailed field of science: FY 1979 ... 123
C-83. Physical and environmental sciences, by agency and detailed field of science: FY 1979 ... 124
C-84. Engineering, by agency and detailed field of science: FY 1979 ... 124
C-85. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1979 ... 125

Applied Research Performed at Universities and Colleges—Agency and Field of Science

C-86. By detailed field of science: FY 1979, 1980, and 1981 ... 126
C-87. By agency and field of science: FY 1979 ... 127
C-88. Psychology and life sciences, by agency and detailed field of science: FY 1979 ... 128
C-89. Physical and environmental sciences, by agency and detailed field of science: FY 1979 ... 128
C-90. Engineering, by agency and detailed field of science: FY 1979 ... 129
C-91. Mathematics and computer sciences and in social sciences, by agency and detailed field of science: FY 1979 ... 130

Foreign Performers—Research and Development

C-92. By region, country, and agency: FY 1979 ... 131

Foreign Performers—Basic Research

C-93. By region, country, and agency: FY 1979 ... 132

Special Foreign Currency Program

C-94. For research and development, by agency: FY 1979, 1980, and 1981 ... 133
C-95. For basic research, by agency: FY 1979, 1980, and 1981 ... 134
C-96. For applied research by agency: FY 1979, 1980, and 1981 ... 135
C-97. For development by agency, FY 1979, 1980, and 1981 ... 136

Geographic Distribution—Research and Development and R&D Plant

C-98. Research, development, and R&D plant, by geographic division and State: FY 1979 ... 137
C-99. Research and development, by State and performer: FY 1979 ... 138
C-99A. Percent distribution to each performer, by State: FY 1979 ... 139
C-99B. Percent distribution to each State, by performer: FY 1979 ... 140
C-100. Research and development, by State and agency: FY 1979 ... 141
C-100A. Percent distribution of each agency, by State: FY 1979 ... 142
C-100B. Percent distribution of each State, by agency: FY 1979 ... 143
C-101. Research and development, by geographic division, State, agency and performer: FY 1979 ... 144
C-102. R&D plant, by geographic division, State, and performer supported: FY 1979 ... 155
C-103. R&D plant, by geographic division, State, and agency: FY 1979 ... 156

Federal Intramural Personnel Costs

C-104. Total research and development, by agency: FY 1979, 1980, and 1981 ... 157
C-105. Basic research, by agency: FY 1979, 1980, and 1981 ... 159

C-106. Applied research, by agency: FY 1979, 1980, and 1981 160
C-107. Development, by agency: FY 1979, 1980, and 1981 162

Historical Data

OUTLAYS

C-108. Research, development, and R&D plant, by agency: FY 1970–80 ... 164
C-109. Research and development, by agency: FY 1970–80 166
C-110. R&D plant, by agency: FY 1970–80 167

OBLIGATIONS

C-111. Research, development, and R&D plant, by agency: FY 1971–81 ... 168
C-112. Research and development, by agency: FY 1971–81 170
C-113. R&D plant, by agency: FY 1971–81 171
C-114. Research and development, by character of work and R&D plant: FY 1971–81 172
C-115. Total research, by selected agency: FY 1971–81 173
C 116. Basic research, by selected agency: FY 1971–81 175
C-117. Applied research, by selected agency: FY 1971–81 176
C-118. Development, by selected agency: FY 1971–81 177
C-119. Research and development, by performer: FY 1971–81 178
C-120. Total research, by performer: fiscal years 1971–81 178
C-121. Basic research, by performer: fiscal years 1971–81 178
C-122. Applied research, by performer: fiscal years 1971–81 178
C-123. Development, by performer: fiscal years 1971–81 179
C-124. Total research, by field of science: fiscal years 1971–81 180
C-125. Basic research, by field of science: fiscal years 1971–81 180
C-126. Applied research, by field of science: fiscal years 1971–81 180
C-127. Research and development, by geographic division and State: fiscal years 1970–79 181
C-128. R&D plant, by geographic division and State: fiscal years 1970–79 .. 182

notes

- Estimates for 1981 are based on the *Budget of the United States Government, Fiscal Year 1981* and on *Fiscal Year 1981 Budget Revisions*, as submitted to Congress by the administration, and do not reflect subsequent appropriations and apportionment actions.
- Details may not add to totals because of rounding.
- Asterisks appearing in lieu of figures indicate that the amounts are less than $50,000 or less than .05 percent.
- The abbreviation "FFRDC's" appearing in statistical tables refers to federally funded research and development centers.
- In tables showing extramural performers, obligations of the Department of Agriculture to agricultural experiment stations are included within obligations to universities and colleges.
- Defense Agencies within the Department of Defense include the Defense Advanced Research Projects Agency, the Defense Nuclear Agency, the Defense Communications Agency, the Defense Mapping Agency, the Defense Logistics Agency, the Uniformed Services University of the Health Sciences, and technical support, Joint Chiefs of Staff.
- R&D data reported by the National Aeronautics and Space Administration are in terms of budget plan rather than obligations.
- The Department of Health and Human Services and the Department of Education replace the former Department of Health, Education, and Welfare.
- Within the Department of the Interior, the Water and Power Resources Service replaces the former Bureau of Reclamation.
- Within the Department of Justice, the Federal Prison System replaces the former Bureau of Prisons and the Office of Justice Assistance, Research, and Statistics replaces the former Law Enforcement Assistance Administration.
- The International Development Cooperation Agency, a new agency, includes the Agency for International Development, formerly under the Department of State.
- The Federal Emergency Management Agency encompasses the U.S. Fire Administration, formerly under the Department of Commerce, and the Defense Civil Preparedness Agency, formerly under the Department of Defense.
- The appendix tables (Volume XXIX) providing data on R&D totals for 1971 through 1978 are not comparable with totals for those years in appendix tables issued to accompany earlier *Federal Funds* reports. Agencies have made some revisions in prior-year data.

NOTE: For trend comparisons, use only these tables, appendix C, for Volume XXIX. Do not use earlier tables.

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1979, 1980, AND 1981

(MILLIONS OF DOLLARS)

ITEM	ACTUAL, 1979	ESTIMATES 1980	ESTIMATES % CHG 1979-1980	ESTIMATES 1981	ESTIMATES % CHG 1980-1981
TOTAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	27,842.8	31,661.1	13.7%	34,891.6	10.2%
RESEARCH AND DEVELOPMENT	26,640.0	29,953.0	12.4	33,099.7	10.5
R&D PLANT	1,202.8	1,708.1	42.0	1,791.9	4.9
TOTAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT	30,453.8	33,902.9	11.3	37,469.7	10.5
RESEARCH AND DEVELOPMENT	28,978.4	31,878.2	10.0	35,492.1	11.3
PERFORMERS:					
FEDERAL INTRAMURAL 1/	7,496.6	8,051.7	7.4	8,965.2	11.3
INDUSTRIAL FIRMS	12,900.3	14,557.8	12.8	16,641.9	14.3
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,318.1	1,388.8	5.4	1,444.9	4.0
UNIVERSITIES AND COLLEGES	3,888.1	4,207.5	8.2	4,555.7	8.3
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	1,511.0	1,621.9	7.3	1,734.4	6.9
OTHER NONPROFIT INSTITUTIONS	1,030.8	1,060.7	2.9	1,085.4	2.3
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	368.7	418.3	13.4	474.9	13.5
STATE AND LOCAL GOVERNMENTS	310.1	385.8	24.4	406.8	5.5
FOREIGN	154.7	185.7	20.1	182.8	-1.5
RESEARCH	10,673.2	11,803.1	10.6	12,908.3	9.4
PERFORMERS:					
FEDERAL INTRAMURAL 1/	3,450.9	3,712.6	7.6	3,977.7	7.1
INDUSTRIAL FIRMS	1,927.2	2,225.7	15.5	2,545.0	14.3
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	245.0	315.9	28.9	348.1	10.2
UNIVERSITIES AND COLLEGES	3,340.4	3,666.8	9.8	3,989.6	8.8
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	800.6	882.7	10.3	987.1	11.8
OTHER NONPROFIT INSTITUTIONS	618.9	653.9	5.7	685.1	4.8
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	73.4	84.9	13.8	95.2	12.2
STATE AND LOCAL GOVERNMENTS	139.5	168.7	21.0	177.5	5.2
FOREIGN	77.4	91.9	18.8	103.0	12.0
FIELDS OF SCIENCE:					
LIFE SCIENCES	3,850.5	4,186.6	8.7	4,437.0	5.9
PSYCHOLOGY	202.3	221.7	9.6	248.3	12.0
PHYSICAL SCIENCES	1,821.5	1,980.4	8.7	2,262.5	14.2
ENVIRONMENTAL SCIENCES	1,103.4	1,249.9	13.3	1,328.5	6.3
MATHEMATICS AND COMPUTER SCIENCES	257.3	282.3	9.7	353.4	25.1
ENGINEERING	2,622.9	2,963.3	13.0	3,245.8	9.5
SOCIAL SCIENCES	527.9	560.2	6.1	601.7	7.4
OTHER SCIENCES, NEC	287.4	358.8	24.8	436.1	21.5
BASIC RESEARCH	4,097.3	4,508.6	10.0	4,901.9	8.7
PERFORMERS:					
FEDERAL INTRAMURAL 1/	1,026.2	1,096.4	6.8	1,172.4	6.9
INDUSTRIAL FIRMS	266.7	294.3	10.4	316.1	7.4
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	66.6	77.4	16.1	86.9	12.3
UNIVERSITIES AND COLLEGES	2,065.7	2,288.2	10.8	2,521.5	10.2
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	393.6	444.5	12.9	480.1	8.0
OTHER NONPROFIT INSTITUTIONS	232.5	250.0	7.5	262.3	4.9
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	6.7	7.3	8.5	7.4	2.0
STATE AND LOCAL GOVERNMENTS	19.8	21.8	10.1	23.5	7.8
FOREIGN	19.5	28.7	47.0	31.7	10.4
FIELDS OF SCIENCE:					
LIFE SCIENCES	1,870.6	2,035.3	8.8	2,176.0	6.9
PSYCHOLOGY	71.1	77.5	9.0	85.8	10.7
PHYSICAL SCIENCES	1,021.5	1,122.7	9.9	1,226.[illegible]	9.3
ENVIRONMENTAL SCIENCES	463.3	509.2	9.9	530.5	4.2
MATHEMATICS AND COMPUTER SCIENCES	96.1	108.4	12.8	129.9	19.8
ENGINEERING	395.1	443.5	12.2	520.7	17.4
SOCIAL SCIENCES	129.5	142.1	9.7	154.9	9.0
OTHER SCIENCES, NEC	50.0	69.8	39.6	77.5	11.0
APPLIED RESEARCH	6,575.9	7,294.5	10.9	8,006.4	9.8
PERFORMERS:					
FEDERAL INTRAMURAL 1/	2,424.7	2,616.2	7.9	2,805.3	7.2
INDUSTRIAL FIRMS	1,660.5	1,931.3	16.3	2,228.9	15.4
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	178.3	238.5	33.7	261.2	9.5
UNIVERSITIES AND COLLEGES	1,274.8	1,378.6	8.1	1,468.1	6.5
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	407.0	438.2	7.7	507.0	15.7
OTHER NONPROFIT INSTITUTIONS	386.4	403.9	4.5	422.8	4.7
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	66.7	77.6	16.5	87.8	13.1
STATE AND LOCAL GOVERNMENTS	119.7	147.0	22.8	154.1	4.8
FOREIGN	57.9	63.2	9.2	71.3	12.7
FIELDS OF SCIENCE:					
LIFE SCIENCES	1,979.8	2,151.2	8.7	2,256.0	4.9
PSYCHOLOGY	131.2	144.2	9.9	162.6	12.7
PHYSICAL SCIENCES	800.0	857.7	7.2	1,035.9	20.8
ENVIRONMENTAL SCIENCES	640.1	740.7	15.7	798.0	7.7
MATHEMATICS AND COMPUTER SCIENCES	161.2	173.9	7.9	223.4	28.5
ENGINEERING	2,227.8	2,519.8	13.1	2,725.1	8.1
SOCIAL SCIENCES	398.3	418.1	5.0	446.9	6.9
OTHER SCIENCES, NEC	237.4	289.0	21.7	358.6	24.1

CONTINUED ON NEXT PAGE

TABLE C-1. SUMMARY OF FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT: FISCAL YEARS 1979, 1980, AND 1981

(MILLIONS OF DOLLARS)

- CONTINUED

ITEM	ACTUAL, 1979	ESTIMATES 1980	% CHG 1979-1980	1981	% CHG 1980-1981
DEVELOPMENT	18,305.2	20,075.1	9.7%	22,583.8	12.5%
PERFORMERS:					
FEDERAL INTRAMURAL 1/	4,045.7	4,339.2	7.3	4,987.5	14.9
INDUSTRIAL FIRMS	10,973.0	12,332.1	12.4	14,096.9	14.3
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	1,073.1	1,073.0	*	1,096.9	2.2
UNIVERSITIES AND COLLEGES	547.7	540.7	-1.3	566.1	4.7
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	710.4	739.2	4.1	747.3	1.1
OTHER NONPROFIT INSTITUTIONS	411.9	406.8	-1.3	400.3	-1.6
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	295.4	333.4	12.9	379.7	13.9
STATE AND LOCAL GOVERNMENTS	170.7	217.0	27.2	229.3	5.7
FOREIGN	77.3	93.8	21.4	79.9	-14.8
R&D PLANT	1,475.5	2,024.7	37.2	1,977.6	-2.3
PERFORMERS SUPPORTED:					
FEDERAL INTRAMURAL	544.8	674.1	23.7	682.4	1.2
INDUSTRIAL FIRMS	214.4	556.6	159.6	611.9	9.9
FFRDCS ADMINISTERED BY INDUSTRIAL FIRMS	224.4	277.4	23.6	252.1	-9.1
UNIVERSITIES AND COLLEGES	42.0	49.0	16.5	37.9	-22.5
FFRDCS ADMINISTERED BY UNIVERSITIES AND COLLEGES	414.1	431.6	4.2	362.8	-15.9
OTHER NONPROFIT INSTITUTIONS	9.2	6.4	-31.2	5.6	-11.2
FFRDCS ADMINISTERED BY NONPROFIT INSTITUTIONS	17.7	22.1	24.8	14.5	-34.4
STATE AND LOCAL GOVERNMENTS	.3	-	-100.0	-	N/A
FOREIGN	8.4	7.6	-9.6	10.3	35.9

1/ COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS ARE COVERED AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

* INDICATES PERCENT CHANGE LESS THAN .05.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1979	ESTIMATES		1979	ESTIMATES	
		1980	1981		1980	1981
TOTAL, ALL AGENCIES	30,453.8	33,902.9	37,469.7	27,842.8	31,661.1	34,391.6
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	685.7	773.0	814.9	630.5	690.8	705.2
AGRICULTURAL MARKETING SERVICE	1.0	1.3	1.3	.9	1.3	1.3
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	35.5	42.1	44.6	35.6	42.1	44.5
FOREST SERVICE	111.0	115.7	124.1	105.7	115.2	118.3
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	-	-	8.6	-	-	8.6
OFFICE OF TRANSPORTATION	.7	.8	.9	.5	.8	.9
SCIENCE & EDUCATION ADMINISTRATION	537.5	613.1	635.3	487.8	531.3	531.6
AGRICULTURAL RESEARCH	365.0	427.0	435.7	331.2	347.1	341.3
COOPERATIVE RESEARCH	172.6	186.1	199.6	156.6	184.2	190.2
DEPARTMENT OF COMMERCE, TOTAL	311.8	343.0	373.9	307.1	349.4	363.3
BUREAU OF THE CENSUS	3.1	3.2	3.3	2.7	3.2	3.2
ECONOMIC DEVELOPMENT ADMINISTRATION	43.1	38.5	42.0	26.7	33.5	29.3
MARITIME ADMINISTRATION	20.5	20.5	17.8	18.7	17.8	17.8
NATIONAL BUREAU OF STANDARDS	69.3	76.4	79.7	64.8	74.5	82.0
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	171.2	194.1	220.0	190.1	215.9	225.8
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	4.1	9.3	10.1	3.3	4.0	4.1
OFFICE OF THE SECRETARY	.1	.4	-	.3	.1	-
PATENT AND TRADEMARK OFFICE	.5	.6	1.1	.5	.6	1.1
DEPARTMENT OF DEFENSE, TOTAL	12,776.4	14,156.4	17,049.5	11,733.1	13,175.0	15,627.7
DEPARTMENT OF THE ARMY	2,772.5	2,969.2	3,380.4	2,536.2	2,809.9	3,148.1
MILITARY FUNCTIONS	2,746.9	2,939.5	3,348.1	2,510.6	2,780.2	3,115.8
MILITARY CONSTRUCTION	2.6	15.1	14.5	1.0	2.7	9.8
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	100.8	116.1	125.6	100.8	116.1	125.6
RDT&E APPROPRIATION	2,643.5	2,808.2	3,208.0	2,408.9	2,661.4	2,980.4
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	25.6	29.7	32.3	25.6	29.7	32.3
DEPARTMENT OF THE NAVY	4,403.1	4,881.1	4,984.6	3,926.4	4,404.7	4,811.4
MILITARY CONSTRUCTION	18.3	7.5	17.3	7.3	9.2	9.6
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	86.6	101.1	107.8	86.6	101.1	107.8
RDT&E APPROPRIATION	4,293.3	4,766.6	4,851.8	3,826.4	4,289.0	4,686.7
SPECIAL FOREIGN CURRENCY PROGRAM	4.9	6.0	7.7	6.1	5.5	7.3
DEPARTMENT OF THE AIR FORCE	4,693.1	5,277.6	7,347.4	4,428.0	4,968.8	6,454.3
MILITARY CONSTRUCTION	98.5	172.0	211.4	100.0	122.9	174.9
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	248.2	284.8	290.8	248.2	284.8	290.8
RDT&E APPROPRIATION	4,346.4	4,820.9	6,845.2	4,079.8	4,561.1	5,988.6
DEFENSE AGENCIES	878.4	995.8	1,294.9	814.2	959.6	1,175.9
MILITARY CONSTRUCTION	6.3	-	-	5.4	.9	-
RDT&E APPROPRIATION	872.1	995.8	1,294.9	808.8	958.7	1,175.9
DIRECTOR OF TEST & EVALUATION, DEFENSE	29.3	32.6	42.2	28.3	32.0	38.0
DEPARTMENT OF EDUCATION	166.3	153.1	164.1	136.5	145.5	147.2
DEPARTMENT OF ENERGY	5,483.2	6,234.0	6,207.2	4,956.8	5,776.2	5,904.4
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,558.4	3,818.7	3,961.9	3,172.7	3,468.5	3,649.3
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	214.4	237.0	267.5	184.7	201.3	222.4
CENTER FOR DISEASE CONTROL	76.3	94.5	97.2	72.4	74.7	83.6
FOOD & DRUG ADMINISTRATION	66.7	64.9	92.8	40.6	49.0	63.0
HEALTH CARE FINANCING ADMINISTRATION	31.8	46.8	52.4	19.5	37.1	48.7
HEALTH RESOURCES ADMINISTRATION	4.9	.3	-	3.2	2.7	1.6
HEALTH SERVICES ADMINISTRATION	28.7	30.9	14.8	23.1	21.7	17.5
NATIONAL INSTITUTES OF HEALTH	3,000.8	3,201.9	3,295.3	2,713.4	2,948.2	3,083.1
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	34.6	35.1	40.7	14.7	25.8	29.1
OFFICE OF HUMAN DEVELOPMENT SERVICES	57.[illegible]	60.5	54.0	57.1	60.5	54.0
OFFICE OF THE SECRETARY	24.7	24.0	24.0	26.5	26.5	24.6
SOCIAL SECURITY ADMINISTRATION	18.3	22.8	23.4	17.4	21.0	21.6
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	67.9	61.5	64.1	74.3	66.1	64.2
DEPARTMENT OF THE INTERIOR, TOTAL	410.8	436.8	434.2	404.3	413.9	432.8
BUREAU OF LAND MANAGEMENT	1.3	1.7	1.6	1.3	1.7	1.6
BUREAU OF MINES	121.3	118.9	109.0	121.4	108.0	111.4
GEOLOGICAL SURVEY	145.6	153.2	151.5	144.2	146.6	151.7
NATIONAL PARK SERVICE	8.9	9.0	11.3	8.9	9.0	11.3
OFFICE OF THE SECRETARY	1.4	4.1	2.4	1.5	2.4	3.2
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	5.0	8.4	8.3	5.0	8.4	8.3
OFFICE OF WATER RESEARCH & TECHNOLOGY	28.0	31.0	33.4	23.8	25.3	28.6
UNITED STATES FISH AND WILDLIFE SERVICE	87.1	96.4	103.1	87.3	96.8	103.2
WATER AND POWER RESOURCES SERVICE	12.2	14.2	13.6	11.0	15.7	13.7

CONTINUED ON NEXT PAGE

TABLE C-2. FEDERAL FUNDS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1979	ESTIMATES		1979	ESTIMATES	
		1980	1981		1980	1981
DEPARTMENT OF JUSTICE, TOTAL	43.0	47.6	42.6	45.9	48.1	60.0
DRUG ENFORCEMENT ADMINISTRATION	2.4	4.4	3.1	2.7	4.0	3.2
FEDERAL BUREAU OF INVESTIGATION	3.1	2.2	.3	2.5	2.3	1.7
FEDERAL PRISON SYSTEM	3.4	4.1	4.2	3.3	4.0	4.0
IMMIGRATION AND NATURALIZATION SERVICE	.2	.8	.4	.3	1.0	.5
OFFICE OF THE ATTORNEY GENERAL	1.7	1.7	2.2	1.6	1.0	1.3
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	32.2	34.4	32.5	35.5	35.8	49.2
DEPARTMENT OF LABOR, TOTAL	137.0	164.0	192.8	109.2	167.7	216.9
BUREAU OF LABOR STATISTICS	.9	.9	1.1	.9	.9	1.1
EMPLOYMENT STANDARDS ADMINISTRATION	5.3	6.3	6.5	5.1	6.2	6.3
EMPLOYMENT AND TRAINING ADMINISTRATION	120.8	145.4	169.9	93.0	149.4	194.2
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3.2	3.2	3.3	3.5	3.1	3.2
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	5.1	6.5	10.3	5.1	6.5	10.3
OFFICE OF THE SECRETARY	1.6	1.6	1.8	1.6	1.6	1.8
DEPARTMENT OF STATE, TOTAL	3.2	2.8	2.7	3.2	2.8	2.7
DEPARTMENTAL FUNDS	3.2	2.8	2.7	3.2	2.8	2.7
DEPARTMENT OF TRANSPORTATION, TOTAL	392.7	388.0	396.3	372.4	364.7	359.0
COAST GUARD	21.1	22.0	24.0	20.5	20.0	22.0
FEDERAL AVIATION ADMINISTRATION	120.4	111.5	121.7	111.4	106.4	112.3
FEDERAL HIGHWAY ADMINISTRATION	53.5	62.2	56.1	48.9	61.6	55.4
FEDERAL RAILROAD ADMINISTRATION	56.1	58.3	56.3	58.0	50.0	45.2
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	56.8	59.2	62.7	53.6	54.2	59.2
OFFICE OF THE SECRETARY	11.7	12.5	12.0	16.7	17.0	14.5
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	15.0	14.4	14.6	12.8	12.5	12.8
URBAN MASS TRANSPORTATION ADMINISTRATION	58.0	47.9	48.9	50.5	43.0	37.6
DEPARTMENT OF THE TREASURY, TOTAL	9.6	12.5	11.9	9.6	12.5	11.9
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	2.5	1.6	.8	2.5	1.6	.8
BUREAU OF ENGRAVING AND PRINTING	2.1	3.7	4.0	2.1	3.7	4.0
CUSTOMS SERVICE	1.4	3.7	3.2	1.4	3.7	3.2
INTERNAL REVENUE SERVICE	3.6	3.6	3.9	3.6	3.6	3.9
OTHER AGENCIES						
ACTION	1.6	1.6	2.6	1.6	1.6	2.6
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1.7	1.7	1.8	1.7	2.1	1.8
APPALACHIAN REGIONAL COMMISSION	.9	.8	.8	.9	.8	.8
CIVIL AERONAUTICS BOARD	.6	.7	.6	.6	.7	.6
COMMUNITY SERVICES ADMINISTRATION	20.7	25.0	24.0	19.5	21.5	22.3
CONSUMER PRODUCT SAFETY COMMISSION	6.6	6.2	7.6	5.8	6.3	7.3
ENVIRONMENTAL PROTECTION AGENCY	412.5	416.8	447.4	388.9	435.1	465.2
EXECUTIVE OFFICE (ENERGY SECURITY TRUST FUND)	-	15.0	39.0	-	15.0	33.0
FEDERAL COMMUNICATIONS COMMISSION	2.9	3.9	3.3	1.9	3.6	3.5
FEDERAL EMERGENCY MANAGEMENT AGENCY	12.6	11.8	14.2	12.0	11.2	13.5
FEDERAL HOME LOAN BANK BOARD	.9	1.2	1.3	.9	1.2	1.3
FEDERAL TRADE COMMISSION	1.5	1.3	1.5	1.5	1.3	1.5
GENERAL SERVICES ADMINISTRATION	.5	.3	.4	.5	.3	.4
INTERNATIONAL COMMUNICATION AGENCY	.1	.2	.1	.1	.2	.1
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	112.9	126.3	141.6	80.3	112.5	123.5
AGENCY FOR INTERNATIONAL DEVELOPMENT	112.9	64.2	80.4	80.3	64.8	72.2
INST FOR SCIENTIFIC & TECHNOLOGICAL COOPERATION	-	62.1	61.1	-	47.8	51.2
INTERSTATE COMMERCE COMMISSION	.2	.2	.2	.2	.2	.2
LIBRARY OF CONGRESS	5.9	5.3	5.2	5.4	5.9	5.2
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,558.5	5,269.8	5,517.7	4,196.5	5,002.6	5,215.7
NATIONAL SCIENCE FOUNDATION	838.1	923.6	1,011.7	804.6	870.0	940.6
NUCLEAR REGULATORY COMMISSION	157.4	204.1	228.2	145.4	188.6	210.9
OFFICE OF PERSONNEL MANAGEMENT	6.0	6.7	8.1	6.0	6.8	8.1
SMITHSONIAN INSTITUTION	37.9	42.1	45.3	37.8	40.8	45.0
TENNESSEE VALLEY AUTHORITY	89.2	98.4	92.3	45.4	110.5	93.4
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3.5	3.8	3.9	3.5	4.2	3.9
UNITED STATES INTERNATIONAL TRADE COMMISSION	3.4	2.7	4.1	3.4	2.7	4.1
VETERANS ADMINISTRATION	132.1	141.7	150.5	123.1	134.1	142,4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS 1979	OBLIGATIONS ESTIMATES 1980	OBLIGATIONS ESTIMATES 1981	OUTLAYS 1979	OUTLAYS ESTIMATES 1980	OUTLAYS ESTIMATES 1981
TOTAL, ALL AGENCIES	28,978.4	31,878.2	35,492.1	26,640.0	29,953.0	33,399.7
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	663.0	731.7	777.5	608.7	652.9	664.5
AGRICULTURAL MARKETING SERVICE	1.0	1.3	1.3	.9	1.3	1.3
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	35.5	42.1	44.6	35.6	42.1	44.5
FOREST SERVICE	107.5	112.1	124.1	102.2	111.6	118.3
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	-	-	8.6	-	-	8.6
OFFICE OF TRANSPORTATION	.7	.8	.9	.5	.8	.9
SCIENCE & EDUCATION ADMINISTRATION	518.4	575.4	598.0	469.5	497.0	490.9
AGRICULTURAL RESEARCH	345.8	389.3	403.3	312.9	312.9	300.7
COOPERATIVE RESEARCH	172.6	186.1	194.6	156.6	184.2	190.2
DEPARTMENT OF COMMERCE, TOTAL	309.4	338.3	372.6	305.2	344.7	362.0
BUREAU OF THE CENSUS	3.1	3.2	3.3	2.7	3.2	3.2
ECONOMIC DEVELOPMENT ADMINISTRATION	43.1	38.5	42.0	26.7	33.5	29.3
MARITIME ADMINISTRATION	19.6	20.0	17.3	18.2	17.3	17.3
NATIONAL BUREAU OF STANDARDS	67.8	76.1	79.1	63.4	74.1	81.5
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	171.2	190.2	219.7	190.1	212.0	225.5
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	4.1	9.3	10.1	3.3	4.0	4.1
OFFICE OF THE SECRETARY	.1	.4	-	.3	.1	-
PATENT AND TRADEMARK OFFICE	.5	.6	1.1	.5	.6	1.1
DEPARTMENT OF DEFENSE, TOTAL	12,506.2	13,787.7	16,604.4	11,497.3	12,869.4	15,244.3
DEPARTMENT OF THE ARMY	2,768.7	2,951.9	3,363.9	2,534.1	2,805.1	3,136.5
MILITARY FUNCTIONS	2,743.1	2,922.2	3,331.6	2,508.5	2,775.4	3,104.2
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	100.8	116.1	125.6	100.8	116.1	125.6
RDT&E APPROPRIATION	2,642.3	2,806.0	3,206.0	2,407.8	2,659.3	2,978.6
CIVIL FUNCTIONS (CORPS OF ENGINEERS)	25.6	29.7	32.3	25.6	29.7	32.3
DEPARTMENT OF THE NAVY	4,335.0	4,809.6	4,891.3	3,873.5	4,333.5	4,726.8
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	86.6	101.1	107.8	86.6	101.1	107.8
RDT&E APPROPRIATION	4,243.5	4,702.6	4,775.8	3,780.8	4,227.0	4,611.7
SPECIAL FOREIGN CURRENCY PROGRAM	4.9	6.0	7.7	6.1	5.5	7.3
DEPARTMENT OF THE AIR FORCE	4,525.6	5,021.8	7,059.9	4,263.1	4,760.7	6,202.1
PAY & ALLOWANCES OF MILITARY PERSONNEL IN R&D	248.2	284.8	290.8	248.2	284.8	290.8
RDT&E APPROPRIATION	4,277.4	4,737.1	6,769.1	4,014.9	4,475.9	5,911.3
DEFENSE AGENCIES	847.6	971.7	1,247.1	798.3	938.1	1,140.9
RDT&E APPROPRIATION	847.6	971.7	1,247.1	798.3	938.1	1,140.9
DIRECTOR OF TEST & EVALUATION, DEFENSE	29.3	32.6	42.2	28.3	32.0	38.0
DEPARTMENT OF EDUCATION	166.3	153.1	164.1	136.5	145.5	147.2
DEPARTMENT OF ENERGY	4,638.8	4,949.7	4,994.8	4,303.3	4,767.6	4,829.2
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,504.9	3,776.9	3,907.5	3,099.3	3,403.5	3,609.1
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	214.3	236.2	262.1	184.4	201.2	221.2
CENTER FOR DISEASE CONTROL	76.3	94.5	97.2	72.4	74.7	83.6
FOOD & DRUG ADMINISTRATION	61.0	64.2	66.2	40.0	47.1	58.3
HEALTH CARE FINANCING ADMINISTRATION	31.8	46.8	52.4	19.5	37.1	48.7
HEALTH RESOURCES ADMINISTRATION	4.9	.3	-	3.2	2.7	1.6
HEALTH SERVICES ADMINISTRATION	28.7	30.9	14.8	23.1	21.7	17.5
NATIONAL INSTITUTES OF HEALTH	2,953.1	3,161.6	3,272.9	2,641.0	2,885.1	3,049.0
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	34.6	35.1	40.7	14.7	25.8	29.1
OFFICE OF HUMAN DEVELOPMENT SERVICES	57.1	60.5	54.0	57.1	60.5	54.0
OFFICE OF THE SECRETARY	24.7	24.0	24.0	26.5	26.5	24.6
SOCIAL SECURITY ADMINISTRATION	18.3	22.8	23.4	17.4	21.0	21.6
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	67.9	61.5	64.1	74.3	66.1	64.2
DEPARTMENT OF THE INTERIOR, TOTAL	405.8	425.6	425.0	395.3	402.1	422.6
BUREAU OF LAND MANAGEMENT	1.3	1.7	1.6	1.3	1.7	1.6
BUREAU OF MINES	121.0	116.7	109.0	117.1	105.0	109.4
GEOLOGICAL SURVEY	145.6	153.2	151.5	144.2	146.6	151.7
NATIONAL PARK SERVICE	8.9	9.0	11.3	8.9	9.0	11.3
OFFICE OF THE SECRETARY	1.4	4.1	2.4	1.5	2.4	3.2
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	5.0	7.3	7.3	5.0	7.3	7.3
OFFICE OF WATER RESEARCH & TECHNOLOGY	27.2	30.3	32.2	23.1	24.6	27.8
UNITED STATES FISH AND WILDLIFE SERVICE	83.1	89.1	96.1	83.2	89.8	96.7
WATER AND POWER RESOURCES SERVICE	12.2	14.2	13.6	11.0	15.7	13.7

CONTINUED ON NEXT PAGE

TABLE C-3. FEDERAL FUNDS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1979	ESTIMATES		1979	ESTIMATES	
		1980	1981		1980	1981
DEPARTMENT OF JUSTICE, TOTAL	43.0	47.6	42.6	45.9	48.1	60.0
DRUG ENFORCEMENT ADMINISTRATION	2.4	4.4	3.1	2.7	4.0	3.2
FEDERAL BUREAU OF INVESTIGATION	3.1	2.2	.3	2.5	2.3	1.7
FEDERAL PRISON SYSTEM	3.4	4.1	4.2	3.3	4.0	4.0
IMMIGRATION AND NATURALIZATION SERVICE	.2	.8	.4	.3	1.0	.5
OFFICE OF THE ATTORNEY GENERAL	1.7	1.7	2.2	1.6	1.0	1.3
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	32.2	34.4	32.5	35.5	35.8	49.2
DEPARTMENT OF LABOR, TOTAL	137.0	164.0	192.8	109.2	167.7	216.9
BUREAU OF LABOR STATISTICS	.9	.9	1.1	.9	.9	1.1
EMPLOYMENT STANDARDS ADMINISTRATION	5.3	6.3	6.5	5.1	6.2	6.3
EMPLOYMENT AND TRAINING ADMINISTRATION	120.8	145.4	169.9	93.0	149.4	194.2
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3.2	3.2	3.3	3.5	3.1	3.2
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	5.1	6.5	10.3	5.1	6.5	10.3
OFFICE OF THE SECRETARY	1.6	1.6	1.8	1.6	1.6	1.8
DEPARTMENT OF STATE, TOTAL	3.2	2.8	2.7	3.2	2.8	2.7
DEPARTMENTAL FUNDS	3.2	2.8	2.7	3.2	2.8	2.7
DEPARTMENT OF TRANSPORTATION, TOTAL	370.1	362.2	378.3	356.2	339.1	344.8
COAST GUARD	21.1	22.0	24.0	20.5	20.0	22.0
FEDERAL AVIATION ADMINISTRATION	110.5	103.1	115.1	101.9	98.3	105.9
FEDERAL HIGHWAY ADMINISTRATION	52.9	55.2	55.5	48.7	54.6	54.8
FEDERAL RAILROAD ADMINISTRATION	44.2	48.1	45.8	51.7	39.7	38.3
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	56.6	59.0	62.5	53.4	54.0	59.0
OFFICE OF THE SECRETARY	11.7	12.5	12.0	16.7	17.0	14.5
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	15.0	14.4	14.6	12.8	12.5	12.8
URBAN MASS TRANSPORTATION ADMINISTRATION	58.0	47.9	48.9	50.5	43.0	37.6
DEPARTMENT OF THE TREASURY, TOTAL	9.5	12.5	11.9	9.5	12.5	11.9
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	2.5	1.6	.8	2.5	1.6	.8
BUREAU OF ENGRAVING AND PRINTING	2.1	3.7	4.0	2.1	3.7	4.0
CUSTOMS SERVICE	1.3	3.6	3.2	1.3	3.6	3.2
INTERNAL REVENUE SERVICE	3.6	3.6	3.9	3.6	3.6	3.9
OTHER AGENCIES						
ACTION	1.6	1.6	2.6	1.6	1.6	2.6
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1.7	1.7	1.8	1.7	2.1	1.8
APPALACHIAN REGIONAL COMMISSION	.9	.8	.8	.9	.8	.8
CIVIL AERONAUTICS BOARD	.6	.7	.6	.6	.7	.6
COMMUNITY SERVICES ADMINISTRATION	20.7	25.0	24.0	19.5	21.5	22.3
CONSUMER PRODUCT SAFETY COMMISSION	3.9	3.5	4.9	3.1	3.6	4.6
ENVIRONMENTAL PROTECTION AGENCY	410.1	414.8	444.9	386.5	433.1	462.7
EXECUTIVE OFFICE (ENERGY SECURITY TRUST FUND)	-	15.0	39.0	-	15.0	33.0
FEDERAL COMMUNICATIONS COMMISSION	2.9	3.9	3.3	1.9	3.6	3.5
FEDERAL EMERGENCY MANAGEMENT AGENCY	12.6	11.8	14.2	12.0	11.2	13.5
FEDERAL HOME LOAN BANK BOARD	.9	1.2	1.3	.9	1.2	1.3
FEDERAL TRADE COMMISSION	1.5	1.3	1.5	1.5	1.3	1.5
GENERAL SERVICES ADMINISTRATION	.5	.3	.4	.5	.3	.4
INTERNATIONAL COMMUNICATION AGENCY	.1	.2	.1	.1	.2	.1
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	106.5	118.9	131.4	75.8	105.5	115.8
AGENCY FOR INTERNATIONAL DEVELOPMENT	106.5	59.8	73.5	75.8	59.0	66.0
INST FOR SCIENTIFIC & TECHNOLOGICAL COOPERATION	-	59.1	57.9	-	46.5	49.8
INTERSTATE COMMERCE COMMISSION	.2	.2	.2	.2	.2	.2
LIBRARY OF CONGRESS	5.9	5.3	5.2	5.4	5.9	5.2
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,411.0	5,113.7	5,397.7	4,063.8	4,848.7	5,359.7
NATIONAL SCIENCE FOUNDATION	807.9	904.3	994.8	775.2	851.9	924.3
NUCLEAR REGULATORY COMMISSION	148.8	196.3	217.9	137.5	181.4	201.4
OFFICE OF PERSONNEL MANAGEMENT	6.0	6.7	8.1	6.0	6.8	8.1
SMITHSONIAN INSTITUTION	36.9	41.0	45.2	37.2	40.0	44.0
TENNESSEE VALLEY AUTHORITY	38.4	59.0	72.1	37.2	57.9	71.3
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3.5	3.8	3.9	3.5	4.2	3.9
UNITED STATES INTERNATIONAL TRADE COMMISSION	3.4	2.7	4.1	3.4	2.7	4.1
VETERANS ADMINISTRATION	127.0	130.7	133.7	120.3	129.7	133.3

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	28,978,377	4,097,311	6,575,859	18,305,207
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	663,025	256,420	375,500	31,105
AGRICULTURAL MARKETING SERVICE	967	-	445	522
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	35,500	6,390	29,110	-
FOREST SERVICE	107,500	31,400	71,100	5,000
OFFICE OF TRANSPORTATION	665	-	-	665
SCIENCE & EDUCATION ADMINISTRATION	518,393	218,630	274,845	24,918
AGRICULTURAL RESEARCH	345,836	148,170	172,748	24,918
COOPERATIVE RESEARCH	172,557	70,460	102,097	-
DEPARTMENT OF COMMERCE, TOTAL	309,359	24,751	194,707	89,901
BUREAU OF THE CENSUS	3,065	600	1,224	1,241
ECONOMIC DEVELOPMENT ADMINISTRATION	43,080	500	8,000	34,580
MARITIME ADMINISTRATION	19,561	2,000	10,161	7,400
NATIONAL BUREAU OF STANDARDS	67,800	8,800	43,000	16,000
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	171,176	12,851	129,840	28,485
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	4,060	-	2,400	1,660
OFFICE OF THE SECRETARY	82	-	82	-
PATENT AND TRADEMARK OFFICE	535	-	-	535
DEPARTMENT OF DEFENSE, TOTAL	12,506,225	363,322	1,788,310	10,354,593
DEPARTMENT OF THE ARMY	2,768,674	59,482	402,730	2,306,462
DEPARTMENT OF THE NAVY	4,335,042	147,700	285,100	3,902,242
DEPARTMENT OF THE AIR FORCE	4,525,616	96,800	653,900	3,774,916
DEFENSE AGENCIES	847,583	59,340	446,580	341,663
DIRECTOR OF TEST & EVALUATION, DEFENSE	29,310	-	-	29,310
DEPARTMENT OF EDUCATION	166,288	20,567	72,825	72,896
DEPARTMENT OF ENERGY	4,638,766	462,968	668,878	3,506,920
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,504,880	1,576,011	1,439,658	489,211
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	214,283	94,622	118,913	748
CENTER FOR DISEASE CONTROL	76,271	-	76,271	-
FOOD & DRUG ADMINISTRATION	60,979	-	60,979	-
HEALTH CARE FINANCING ADMINISTRATION	31,828	-	31,828	-
HEALTH RESOURCES ADMINISTRATION	4,944	-	4,944	-
HEALTH SERVICES ADMINISTRATION	28,695	1,988	8,213	18,494
NATIONAL INSTITUTES OF HEALTH	2,953,133	1,463,703	1,066,408	423,022
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	34,616	13,615	16,279	4,722
OFFICE OF HUMAN DEVELOPMENT SERVICES	57,088	-	14,863	42,225
OFFICE OF THE SECRETARY	24,715	2,083	22,632	-
SOCIAL SECURITY ADMINISTRATION	18,328	-	18,328	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	67,915	-	23,770	44,145
DEPARTMENT OF THE INTERIOR, TOTAL	405,778	72,522	266,946	66,310
BUREAU OF LAND MANAGEMENT	1,335	-	1,121	214
BUREAU OF MINES	121,004	13,700	65,400	41,904
GEOLOGICAL SURVEY	145,571	49,009	96,062	500
NATIONAL PARK SERVICE	8,944	-	8,944	-
OFFICE OF THE SECRETARY	1,413	1,413	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	4,978	-	4,978	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	27,238	4,600	13,200	9,438
UNITED STATES FISH AND WILDLIFE SERVICE	83,095	3,700	65,941	13,454
WATER AND POWER RESOURCES SERVICE	12,200	100	11,300	800
DEPARTMENT OF JUSTICE, TOTAL	42,991	7,900	20,946	14,145
DRUG ENFORCEMENT ADMINISTRATION	2,400	-	700	1,700
FEDERAL BUREAU OF INVESTIGATION	3,080	-	-	3,080
FEDERAL PRISON SYSTEM	3,388	-	498	2,890
IMMIGRATION AND NATURALIZATION SERVICE	200	-	100	100
OFFICE OF THE ATTORNEY GENERAL	1,680	-	1,648	32
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	32,243	7,900	18,000	6,343
DEPARTMENT OF LABOR, TOTAL	136,977	2,286	39,796	94,895
BUREAU OF LABOR STATISTICS	912	-	912	-
EMPLOYMENT STANDARDS ADMINISTRATION	5,338	-	5,338	-
EMPLOYMENT AND TRAINING ADMINISTRATION	120,837	1,786	24,156	94,895
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3,183	500	2,683	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	5,107	-	5,107	-
OFFICE OF THE SECRETARY	1,600	-	1,600	-
DEPARTMENT OF STATE, TOTAL	3,168	45	2,649	474
DEPARTMENTAL FUNDS	3,168	45	2,649	474

CONTINUED ON NEXT PAGE

TABLE C-4. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	370,089	-	66,983	303,106
COAST GUARD	21,100	-	10,900	10,200
FEDERAL AVIATION ADMINISTRATION	110,500	-	7,500	103,000
FEDERAL HIGHWAY ADMINISTRATION	52,900	-	4,400	48,500
FEDERAL RAILROAD ADMINISTRATION	44,200	-	7,500	36,700
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	56,639	-	30,003	26,636
OFFICE OF THE SECRETARY	11,702	-	580	11,122
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	15,000	-	5,000	10,000
URBAN MASS TRANSPORTATION ADMINISTRATION	58,048	-	1,100	56,948
DEPARTMENT OF THE TREASURY, TOTAL	9,541	220	4,498	4,823
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	2,513	-	655	1,858
BUREAU OF ENGRAVING AND PRINTING	2,088	-	593	1,495
CUSTOMS SERVICE	1,340	-	-	1,340
INTERNAL REVENUE SERVICE	3,600	220	3,250	130
OTHER AGENCIES				
ACTION	1,572	-	-	1,572
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,696	-	1,696	-
APPALACHIAN REGIONAL COMMISSION	870	-	650	220
CIVIL AERONAUTICS BOARD	631	-	631	-
COMMUNITY SERVICES ADMINISTRATION	20,678	-	1,813	18,865
CONSUMER PRODUCT SAFETY COMMISSION	3,900	-	1,800	2,100
ENVIRONMENTAL PROTECTION AGENCY	410,100	10,100	248,900	151,100
FEDERAL COMMUNICATIONS COMMISSION	2,900	-	2,900	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	12,582	3,014	6,705	2,863
FEDERAL HOME LOAN BANK BOARD	863	-	863	-
FEDERAL TRADE COMMISSION	1,521	445	1,076	-
GENERAL SERVICES ADMINISTRATION	493	14	144	335
INTERNATIONAL COMMUNICATION AGENCY	104	-	77	27
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	106,472	-	66,886	39,586
AGENCY FOR INTERNATIONAL DEVELOPMENT	106,472	-	66,886	39,586
INTERSTATE COMMERCE COMMISSION	150	-	150	-
LIBRARY OF CONGRESS	5,900	100	500	5,300
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	4,411,008	512,847	938,389	2,959,772
NATIONAL SCIENCE FOUNDATION	807,925	733,255	66,770	7,900
NUCLEAR REGULATORY COMMISSION	148,772	-	148,772	-
OFFICE OF PERSONNEL MANAGEMENT	5,988	-	1,354	4,634
SMITHSONIAN INSTITUTION	36,901	36,901	-	-
TENNESSEE VALLEY AUTHORITY	38,388	4,100	12,351	21,937
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3,540	-	2,710	830
UNITED STATES INTERNATIONAL TRADE COMMISSION	3,417	-	3,417	-
VETERANS ADMINISTRATION	127,004	9,523	101,839	15,642

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	31,878,185	4,508,578	7,294,523	20,075,084
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	731,742	287,991	409,451	34,300
AGRICULTURAL MARKETING SERVICE	1,346	-	619	727
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	42,100	7,578	34,522	-
FOREST SERVICE	112,100	33,900	72,700	5,500
OFFICE OF TRANSPORTATION	822	-	-	822
SCIENCE & EDUCATION ADMINISTRATION	575,374	246,513	301,610	27,251
AGRICULTURAL RESEARCH	389,305	170,479	191,575	27,251
COOPERATIVE RESEARCH	186,069	76,034	110,035	-
DEPARTMENT OF COMMERCE, TOTAL	338,336	28,960	215,570	93,806
BUREAU OF THE CENSUS	3,239	549	1,098	1,592
ECONOMIC DEVELOPMENT ADMINISTRATION	38,500	300	2,200	36,000
MARITIME ADMINISTRATION	19,974	2,100	10,074	7,800
NATIONAL BUREAU OF STANDARDS	76,100	12,512	46,888	16,700
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	190,215	13,455	146,406	30,354
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	9,300	-	8,500	800
OFFICE OF THE SECRETARY	448	44	404	-
PATENT AND TRADEMARK OFFICE	560	-	-	560
DEPARTMENT OF DEFENSE, TOTAL	13,787,691	430,321	2,004,174	11,353,196
DEPARTMENT OF THE ARMY	2,951,892	73,920	460,125	2,417,847
DEPARTMENT OF THE NAVY	4,809,628	167,000	329,000	4,313,628
DEPARTMENT OF THE AIR FORCE	5,021,849	110,000	698,300	4,213,549
DEFENSE AGENCIES	971,722	79,401	516,749	375,572
DIRECTOR OF TEST & EVALUATION, DEFENSE	32,600	-	-	32,600
DEPARTMENT OF EDUCATION	153,143	22,042	67,420	63,681
DEPARTMENT OF ENERGY	4,949,695	520,277	749,387	3,680,031
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,776,871	1,698,590	1,583,929	494,352
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	236,170	101,945	132,699	1,526
CENTER FOR DISEASE CONTROL	94,480	-	94,480	-
FOOD & DRUG ADMINISTRATION	64,159	-	64,159	-
HEALTH CARE FINANCING ADMINISTRATION	46,782	-	46,782	-
HEALTH RESOURCES ADMINISTRATION	265	-	265	-
HEALTH SERVICES ADMINISTRATION	30,935	2,000	5,530	23,405
NATIONAL INSTITUTES OF HEALTH	3,161,621	1,579,493	1,164,305	417,823
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	35,134	13,352	15,276	6,506
OFFICE OF HUMAN DEVELOPMENT SERVICES	60,541	-	15,449	45,092
OFFICE OF THE SECRETARY	24,000	1,800	22,200	-
SOCIAL SECURITY ADMINISTRATION	22,784	-	22,784	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	61,464	-	23,370	38,094
DEPARTMENT OF THE INTERIOR, TOTAL	425,573	76,121	286,585	62,867
BUREAU OF LAND MANAGEMENT	1,654	-	1,323	331
BUREAU OF MINES	116,737	14,700	65,100	36,937
GEOLOGICAL SURVEY	153,185	48,946	103,739	500
NATIONAL PARK SERVICE	8,985	-	8,985	-
OFFICE OF THE SECRETARY	4,075	4,075	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	7,300	-	7,300	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	30,339	4,600	14,700	11,039
UNITED STATES FISH AND WILDLIFE SERVICE	89,098	3,600	72,638	12,860
WATER AND POWER RESOURCES SERVICE	14,200	200	12,800	1,200
DEPARTMENT OF JUSTICE, TOTAL	47,637	8,400	22,900	16,337
DRUG ENFORCEMENT ADMINISTRATION	4,400	-	1,400	3,000
FEDERAL BUREAU OF INVESTIGATION	2,215	-	-	2,215
FEDERAL PRISON SYSTEM	4,110	-	650	3,460
IMMIGRATION AND NATURALIZATION SERVICE	800	-	400	400
OFFICE OF THE ATTORNEY GENERAL	1,700	-	1,250	450
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	34,412	8,400	19,200	6,812
DEPARTMENT OF LABOR, TOTAL	163,968	3,233	41,949	118,786
BUREAU OF LABOR STATISTICS	925	-	925	-
EMPLOYMENT STANDARDS ADMINISTRATION	6,348	-	6,348	-
EMPLOYMENT AND TRAINING ADMINISTRATION	145,360	2,733	23,841	118,786
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3,189	500	2,689	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	6,546	-	6,546	-
OFFICE OF THE SECRETARY	1,600	-	1,600	-
DEPARTMENT OF STATE, TOTAL	2,766	-	2,366	400
DEPARTMENTAL FUNDS	2,766	-	2,366	400

CONTINUED ON NEXT PAGE

TABLE C-5. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	362,199	-	70,352	291,847
COAST GUARD	22,000	-	10,100	11,900
FEDERAL AVIATION ADMINISTRATION	103,100	-	7,700	95,400
FEDERAL HIGHWAY ADMINISTRATION	55,200	-	5,100	50,100
FEDERAL RAILROAD ADMINISTRATION	48,100	-	7,900	40,200
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	59,004	-	33,332	25,672
OFFICE OF THE SECRETARY	12,470	-	620	11,850
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	14,400	-	4,500	9,900
URBAN MASS TRANSPORTATION ADMINISTRATION	47,925	-	1,100	46,825
DEPARTMENT OF THE TREASURY, TOTAL	12,483	1,800	3,072	7,611
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	1,550	-	346	1,204
BUREAU OF ENGRAVING AND PRINTING	3,700	-	829	2,871
CUSTOMS SERVICE	3,633	-	100	3,533
INTERNAL REVENUE SERVICE	3,600	1,800	1,797	3
OTHER AGENCIES				
ACTION	1,620	-	-	1,620
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,717	-	1,717	-
APPALACHIAN REGIONAL COMMISSION	800	-	600	200
CIVIL AERONAUTICS BOARD	653	-	653	-
COMMUNITY SERVICES ADMINISTRATION	25,000	-	1,000	24,000
CONSUMER PRODUCT SAFETY COMMISSION	3,500	-	1,600	1,900
ENVIRONMENTAL PROTECTION AGENCY	414,800	13,500	245,000	156,300
EXECUTIVE OFFICE (ENERGY SECURITY TRUST FUND)	15,000	-	-	15,000
FEDERAL COMMUNICATIONS COMMISSION	3,930	-	3,930	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	11,840	2,642	6,688	2,510
FEDERAL HOME LOAN BANK BOARD	1,211	-	1,211	-
FEDERAL TRADE COMMISSION	1,343	345	998	-
GENERAL SERVICES ADMINISTRATION	329	-	117	212
INTERNATIONAL COMMUNICATION AGENCY	208	-	179	29
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	118,882	-	74,632	44,250
AGENCY FOR INTERNATIONAL DEVELOPMENT	59,765	-	31,265	28,500
INST FOR SCIENTIFIC & TECHNOLOGICAL COOPERATION	59,117	-	43,367	15,750
INTERSTATE COMMERCE COMMISSION	161	-	161	-
LIBRARY OF CONGRESS	5,300	100	600	4,600
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,113,686	537,839	1,076,835	3,499,012
NATIONAL SCIENCE FOUNDATION	904,331	820,861	74,470	9,000
NUCLEAR REGULATORY COMMISSION	196,325	-	196,325	-
OFFICE OF PERSONNEL MANAGEMENT	6,745	-	1,844	4,901
SMITHSONIAN INSTITUTION	41,025	41,025	-	-
TENNESSEE VALLEY AUTHORITY	58,955	4,300	17,806	36,849
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3,830	-	2,730	1,100
UNITED STATES INTERNATIONAL TRADE COMMISSION	2,679	-	2,679	-
VETERANS ADMINISTRATION	130,747	10,231	102,223	18,293

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
TOTAL, ALL AGENCIES	35,492,134	4,901,856	8,006,436	22,583,842
DEPARTMENTS				
DEPARTMENT OF AGRICULTURE, TOTAL	777,516	323,563	419,767	35,186
AGRICULTURAL MARKETING SERVICE	1,335	-	614	721
ECONOMICS, STATISTICS & COOPERATIVES SERVICE	44,600	8,028	36,572	-
FOREST SERVICE	124,100	37,500	80,500	6,100
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	8,642	5,358	2,852	432
OFFICE OF TRANSPORTATION	871	-	-	871
SCIENCE & EDUCATION ADMINISTRATION	597,968	272,677	298,229	27,062
AGRICULTURAL RESEARCH	403,340	187,120	189,158	27,062
COOPERATIVE RESEARCH	194,628	85,557	109,071	-
DEPARTMENT OF COMMERCE, TOTAL	372,573	32,172	237,481	102,920
BUREAU OF THE CENSUS	3,328	560	1,119	1,649
ECONOMIC DEVELOPMENT ADMINISTRATION	42,000	300	2,200	39,500
MARITIME ADMINISTRATION	17,333	1,820	8,595	6,918
NATIONAL BUREAU OF STANDARDS	79,100	14,812	47,788	16,500
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	219,687	14,680	168,596	36,411
NATIONAL TELECOMMUNICATIONS & INFORMATION ADMIN	10,063	-	9,183	880
PATENT AND TRADEMARK OFFICE	1,062	-	-	1,062
DEPARTMENT OF DEFENSE, TOTAL	16,604,408	515,390	2,444,889	13,644,129
DEPARTMENT OF THE ARMY	3,363,921	107,790	605,405	2,650,726
DEPARTMENT OF THE NAVY	4,891,324	194,800	404,300	4,292,224
DEPARTMENT OF THE AIR FORCE	7,059,908	125,300	771,800	6,162,808
DEFENSE AGENCIES	1,247,055	87,500	663,384	496,171
DIRECTOR OF TEST & EVALUATION, DEFENSE	42,200	-	-	42,200
DEPARTMENT OF EDUCATION	164,141	26,170	74,043	63,928
DEPARTMENT OF ENERGY	4,994,781	581,831	843,139	3,569,811
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	3,907,538	1,788,099	1,642,998	476,441
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	262,055	111,540	148,865	1,650
CENTER FOR DISEASE CONTROL	97,169	-	97,169	-
FOOD & DRUG ADMINISTRATION	66,212	-	66,212	-
HEALTH CARE FINANCING ADMINISTRATION	52,357	-	52,357	-
HEALTH SERVICES ADMINISTRATION	14,818	2,200	4,922	7,696
NATIONAL INSTITUTES OF HEALTH	3,272,855	1,657,087	1,198,925	416,843
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	40,710	15,072	17,337	8,301
OFFICE OF HUMAN DEVELOPMENT SERVICES	53,975	-	12,024	41,951
OFFICE OF THE SECRETARY	24,000	2,200	21,800	-
SOCIAL SECURITY ADMINISTRATION	23,387	-	23,387	-
DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT	64,085	-	25,776	38,309
DEPARTMENT OF THE INTERIOR, TOTAL	424,989	77,024	288,992	58,973
BUREAU OF LAND MANAGEMENT	1,635	-	1,308	327
BUREAU OF MINES	108,976	15,800	61,600	31,576
GEOLOGICAL SURVEY	151,478	50,196	101,282	-
NATIONAL PARK SERVICE	11,295	-	11,295	-
OFFICE OF THE SECRETARY	2,428	2,428	-	-
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	7,260	-	7,260	-
OFFICE OF WATER RESEARCH & TECHNOLOGY	32,213	4,600	15,400	12,213
UNITED STATES FISH AND WILDLIFE SERVICE	96,104	3,800	78,547	13,757
WATER AND POWER RESOURCES SERVICE	13,600	200	12,300	1,100
DEPARTMENT OF JUSTICE, TOTAL	42,642	8,000	21,941	12,701
DRUG ENFORCEMENT ADMINISTRATION	3,100	-	1,100	2,000
FEDERAL BUREAU OF INVESTIGATION	297	-	-	297
FEDERAL PRISON SYSTEM	4,155	-	798	3,357
IMMIGRATION AND NATURALIZATION SERVICE	400	-	200	200
OFFICE OF THE ATTORNEY GENERAL	2,190	-	1,643	547
OFFICE OF JUSTICE ASSISTANCE, RESEARCH, AND STATISTICS	32,500	8,000	18,200	6,300
DEPARTMENT OF LABOR, TOTAL	192,814	2,745	48,937	141,132
BUREAU OF LABOR STATISTICS	1,117	-	1,117	-
EMPLOYMENT STANDARDS ADMINISTRATION	6,483	-	6,483	-
EMPLOYMENT AND TRAINING ADMINISTRATION	169,857	2,245	26,480	141,132
LABOR-MANAGEMENT SERVICES ADMINISTRATION	3,257	500	2,757	-
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	10,300	-	10,300	-
OFFICE OF THE SECRETARY	1,800	-	1,800	-
DEPARTMENT OF STATE, TOTAL	2,669	-	2,269	400
DEPARTMENTAL FUNDS	2,669	-	2,269	400

CONTINUED ON NEXT PAGE

TABLE C-6. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND CHARACTER OF WORK: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	RESEARCH		DEVELOPMENT
		BASIC	APPLIED	
DEPARTMENT OF TRANSPORTATION, TOTAL	378,320	-	84,100	294,220
COAST GUARD	24,000	-	15,800	8,200
FEDERAL AVIATION ADMINISTRATION	115,100	-	12,200	102,900
FEDERAL HIGHWAY ADMINISTRATION	55,500	-	4,800	50,700
FEDERAL RAILROAD ADMINISTRATION	45,770	-	7,800	37,970
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	62,500	-	36,900	25,600
OFFICE OF THE SECRETARY	12,000	-	600	11,400
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION	14,600	-	4,800	9,800
URBAN MASS TRANSPORTATION ADMINISTRATION	48,850	-	1,200	47,650
DEPARTMENT OF THE TREASURY, TOTAL	11,882	1,950	3,206	6,726
BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS	800	-	160	640
BUREAU OF ENGRAVING AND PRINTING	4,000	-	1,006	2,994
CUSTOMS SERVICE	3,182	-	100	3,082
INTERNAL REVENUE SERVICE	3,900	1,950	1,940	10
OTHER AGENCIES				
ACTION	2,559	-	-	2,559
ADVISORY COMMISSION ON INTERGOVERNMENTAL RELATIONS	1,836	-	1,836	-
APPALACHIAN REGIONAL COMMISSION	800	-	600	200
CIVIL AERONAUTICS BOARD	572	-	572	-
COMMUNITY SERVICES ADMINISTRATION	24,000	-	1,000	23,000
CONSUMER PRODUCT SAFETY COMMISSION	4,900	-	3,100	1,800
ENVIRONMENTAL PROTECTION AGENCY	444,900	18,500	266,700	159,700
EXECUTIVE OFFICE (ENERGY SECURITY TRUST FUND)	39,000	12,000	-	27,000
FEDERAL COMMUNICATIONS COMMISSION	3,318	-	3,318	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	14,249	2,642	9,097	2,510
FEDERAL HOME LOAN BANK BOARD	1,342	-	1,342	-
FEDERAL TRADE COMMISSION	1,514	293	1,221	-
GENERAL SERVICES ADMINISTRATION	442	-	292	150
INTERNATIONAL COMMUNICATION AGENCY	140	-	60	80
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	131,377	-	90,037	41,340
AGENCY FOR INTERNATIONAL DEVELOPMENT	73,477	-	46,857	26,620
INST FOR SCIENTIFIC & TECHNOLOGICAL COOPERATION	57,900	-	43,180	14,720
INTERSTATE COMMERCE COMMISSION	240	-	240	-
LIBRARY OF CONGRESS	5,200	100	400	4,700
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,397,654	544,689	1,056,175	3,796,790
NATIONAL SCIENCE FOUNDATION	994,770	906,320	77,450	11,000
NUCLEAR REGULATORY COMMISSION	217,928	-	217,928	-
OFFICE OF PERSONNEL MANAGEMENT	8,138	-	2,694	5,444
SMITHSONIAN INSTITUTION	45,221	45,221	-	-
TENNESSEE VALLEY AUTHORITY	72,061	4,900	23,368	-43,793
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	3,873	-	3,273	600
UNITED STATES INTERNATIONAL TRADE COMMISSION	4,059	-	4,059	-
VETERANS ADMINISTRATION	133,683	10,247	105,136	18,300

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	28,978.4	7,496.6	12,900.3	1,318.1	3,888.1	1,511.0	1030.8	369.7	310.1	154.7
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	663.0	455.5	4.7	-	199.8	-	.3	-	1.3	1.5
AGRICULTURAL MARKETING SERVICE	1.0	.9	.1	-	*	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE ..	35.5	34.5	-	-	1.0	-	-	-	-	-
FOREST SERVICE	107.5	96.5	.6	-	9.5	-	.2	-	.5	.2
OFFICE OF TRANSPORTATION	.7	.7	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	518.4	322.9	4.1	-	189.3	-	.1	-	.8	1.3
AGRICULTURAL RESEARCH	345.8	316.9	4.1	-	23.2	-	.1	-	.2	1.3
COOPERATIVE RESEARCH	172.6	5.9	-	-	166.1	-	-	-	.6	-
DEPARTMENT OF COMMERCE, TOTAL	309.4	196.9	35.9	-	33.2	.4	19.2	-	23.4	.4
BUREAU OF THE CENSUS	3.1	2.9	-	-	.2	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	43.1	2.3	4.0	-	4.1	-	16.7	-	16.0	-
MARITIME ADMINISTRATION	19.6	2.0	15.8	-	1.2	-	.1	-	.4	.1
NATIONAL BUREAU OF STANDARDS	67.8	62.1	4.7	-	.9	-	.1	-	-	.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	171.2	123.0	11.4	-	26.9	.4	2.3	-	7.0	.1
NAT'L TELECOMM & INFO ADMIN	4.1	4.1	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.1	*	-	-	-	-	-	-	-	.1
PATENT AND TRADEMARK OFFICE	.5	.5	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	12,506.2	3,676.9	7,773.1	114.5	432.1	121.0	114.2	211.7	.1	62.6
DEPARTMENT OF THE ARMY	2,768.7	1,090.6	1,555.3	.7	52.3	19.1	29.1	6.3	.1	15.1
DEPARTMENT OF THE NAVY	4,335.0	1,332.7	2,573.2	111.7	209.4	26.5	37.3	4.2	-	40.1
DEPARTMENT OF THE AIR FORCE	4,525.6	1,003.7	3,126.7	-	137.1	48.4	23.9	178.9	-	7.0
DEFENSE AGENCIES	847.6	225.8	515.4	2.2	33.4	27.0	24.0	19.6	-	.4
DIRECTOR OF TEST & EVAL, DEFENSE ...	29.3	24.1	2.6	-	-	-	-	2.7	-	-
DEPARTMENT OF EDUCATION	166.3	19.5	8.5	-	69.0	-	57.5	.3	10.4	1.2
DEPARTMENT OF ENERGY	4,638.8	361.9	1,547.9	1,084.4	260.1	1,169.3	57.0	139.7	15.1	3.5
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	3,504.9	728.9	151.4	29.1	1,941.9	11.2	526.2	1.8	82.7	31.5
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	214.3	56.8	4.6	-	115.2	-	32.6	-	3.8	1.3
CENTER FOR DISEASE CONTROL	76.3	56.0	6.3	-	6.7	-	5.0	-	.1	2.2
FOOD & DRUG ADMINISTRATION	61.0	44.1	3.8	-	8.5	-	4.5	-	.1	-
HEALTH CARE FINANCING ADMIN	31.8	3.7	10.3	-	5.0	-	.1	-	12.8	-
HEALTH RESOURCES ADMINISTRATION	4.9	.2	-	-	4.8	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	28.7	6.6	-	-	6.2	-	13.8	-	1.4	.8
NATIONAL INSTITUTES OF HEALTH	2,953.1	527.9	117.1	29.1	1,765.3	11.2	433.1	1.8	42.1	25.5
OFFICE OF ASST'T SECY FOR HEALTH ...	34.6	10.4	3.9	-	14.3	-	4.2	-	.1	1.6
OFF OF HUMAN DEVELOPMENT SVCS	57.1	4.8	3.0	-	12.4	-	24.7	-	12.2	*
OFFICE OF THE SECRETARY	24.7	3.3	1.4	-	2.6	-	8.2	-	9.3	-
SOCIAL SECURITY ADMINISTRATION	18.3	15.3	1.1	-	1.0	-	.1	-	.7	.1
DEPT OF HOUSING & URBAN DEV	67.9	26.5	21.3	-	5.1	-	13.9	-	1.1	-
DEPARTMENT OF THE INTERIOR, TOTAL	405.8	249.9	66.9	-	43.0	.6	4.3	.3	40.4	.3
BUREAU OF LAND MANAGEMENT	1.3	.7	-	-	.6	-	-	-	-	-
BUREAU OF MINES	121.0	57.0	52.6	-	7.2	.3	3.3	.2	.3	.1
GEOLOGICAL SURVEY	145.6	134.1	.8	-	10.6	-	-	-	*	-
NATIONAL PARK SERVICE	8.9	5.9	.1	-	2.9	-	*	-	-	-
OFFICE OF THE SECRETARY	1.4	.8	.4	-	-	-	-	-	-	.2
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	5.0	1.4	.2	-	2.9	-	.5	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	27.2	3.1	10.2	-	13.9	-	-	-	-	-
US FISH & WILDLIFE SERVICE	83.1	40.8	.6	-	2.0	.4	.4	.1	38.9	-
WATER & POWER RESOURCES SVC	12.2	6.1	2.1	-	2.8	-	-	-	1.3	-
DEPARTMENT OF JUSTICE, TOTAL	43.0	5.0	5.3	-	9.1	-	22.0	-	1.6	-
DRUG ENFORCEMENT ADMIN	2.4	.6	1.8	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	3.1	.2	2.9	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	3.4	.8	-	-	1.2	-	.9	-	.4	-
IMMIGRATION & NATURALIZATION SVC ...	.2	.1	.1	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1.7	*	.3	-	.9	-	.5	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	32.2	3.3	.2	-	7.0	-	20.6	-	1.2	-
DEPARTMENT OF LABOR, TOTAL	137.0	20.1	28.7	-	11.6	*	15.8	-	60.8	-
BUREAU OF LABOR STATISTICS	.9	.9	.1	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	5.3	3.5	.2	-	.3	*	1.3	-	-	-
EMPLOYMENT & TRAINING ADMIN	120.8	12.3	22.9	-	10.6	-	14.3	-	60.8	-
LABOR-MANAGEMENT SERVICES ADMIN	3.2	1.7	.6	-	.7	-	.2	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN .	5.1	.4	4.7	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1.6	1.4	.2	-	*	*	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-7. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	3.2	1.0	1.3	-	0.3	-	0.4	0.1	-	-
DEPARTMENTAL FUNDS	3.2	1.0	1.3	-	.3	-	.4	.1	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	370.1	110.3	184.1	-	19.9	0.3	16.3	-	39.1	-
COAST GUARD	21.1	6.0	14.5	-	.6	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	110.5	26.4	74.8	-	.1	-	9.3	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	52.9	12.1	5.5	-	9.0	-	1.3	-	25.1	-
FEDERAL RAILROAD ADMINISTRATION	44.2	16.0	24.7	-	.5	-	1.1	-	1.8	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	56.6	12.1	31.5	-	2.8	-	2.6	-	7.7	-
OFFICE OF THE SECRETARY	11.7	4.3	7.3	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	15.0	8.8	2.3	-	3.9	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	58.0	24.7	23.6	-	2.8	.3	2.1	-	4.6	-
DEPARTMENT OF THE TREASURY, TOTAL	9.5	3.0	5.1	-	.1	.1	-	1.3	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	2.5	.1	1.1	-	*	.1	-	1.3	-	-
BUREAU OF ENGRAVING AND PRINTING	2.1	1.1	1.0	-	-	-	-	-	-	-
CUSTOMS SERVICE	1.3	.1	1.1	-	.1	-	-	-	-	-
INTERNAL REVENUE SERVICE	3.6	1.7	1.9	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	1.6	.1	-	-	-	-	1.5	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.7	1.7	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.9	.1	.5	-	-	-	.1	-	.2	-
CIVIL AERONAUTICS BOARD	.6	.6	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	20.7	1.5	-	-	-	-	19.2	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3.9	2.4	1.4	-	*	-	.1	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	410.1	175.3	112.3	-	49.8	-	40.2	1.4	28.8	2.3
FEDERAL COMMUNICATIONS COMMISSION	2.9	1.4	1.5	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	12.6	4.9	2.2	-	1.9	-	3.0	.1	.5	-
FEDERAL HOME LOAN BANK BOARD	.9	.9	-	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.5	1.5	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	.5	*	.4	-	-	-	*	-	-	-
INTERNAT'L COMMUNICATION AGENCY	.1	.1	*	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	106.5	7.8	4.2	-	38.7	-	13.0	.3	-	42.5
AGENCY FOR INTERNAT'L DEVELOPMENT	106.5	7.8	4.2	-	38.7	-	13.0	.3	-	42.5
INTERSTATE COMMERCE COMMISSION	.2	.2	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	5.9	5.4	.5	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	4,411.0	1,177.1	2,919.5	-	144.0	115.7	45.4	.4	1.4	7.5
NATIONAL SCIENCE FOUNDATION	807.9	63.2	16.3	2.0	616.7	67.4	40.1	.2	1.3	.8
NUCLEAR REGULATORY COMMISSION	148.8	9.7	4.3	88.1	6.8	24.7	3.0	11.3	.3	.6
OFFICE OF PERSONNEL MANAGEMENT	6.0	3.5	.5	-	.5	-	-	-	1.5	-
SMITHSONIAN INSTITUTION	36.9	33.7	-	-	1.2	-	2.0	-	-	-
TENNESSEE VALLEY AUTHORITY	38.4	22.4	-	-	.2	-	15.8	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	3.5	.5	2.4	-	.2	.3	.2	.1	-	-
US INTERNAT'L TRADE COMMISSION	3.4	3.4	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	127.0	123.8	-	-	2.9	-	.2	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-8. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	31,878.2	8,051.7	14,557.8	1,388.8	4,207.5	1,621.9	1060.7	418.3	385.7	185.7
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	731.7	507.4	7.0	-	214.1	-	.3	-	1.5	1.5
AGRICULTURAL MARKETING SERVICE	1.3	1.2	.1	-	*	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE ..	42.1	41.1	-	-	1.0	-	-	-	-	-
FOREST SERVICE	112.1	101.6	.6	-	9.0	-	.1	-	.5	.2
OFFICE OF TRANSPORTATION	.8	.8	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	575.4	362.6	6.3	-	204.1	-	.2	-	1.0	1.2
AGRICULTURAL RESEARCH	389.3	355.7	6.3	-	25.5	-	.2	-	.3	1.2
COOPERATIVE RESEARCH	186.1	6.9	-	-	178.6	-	-	-	.6	-
DEPARTMENT OF COMMERCE, TOTAL	338.3	218.6	37.6	-	41.4	.4	16.8	-	22.9	.6
BUREAU OF THE CENSUS	3.2	2.9	-	-	.3	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	36.5	1.5	2.7	-	4.1	-	14.6	-	15.6	-
MARITIME ADMINISTRATION	20.0	1.8	17.2	-	.5	-	.2	-	.3	-
NATIONAL BUREAU OF STANDARDS	76.1	69.7	5.4	-	.9	-	.1	-	-	.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	190.2	132.8	12.4	-	35.6	.4	1.9	-	7.0	.1
NAT'L TELECOMM & INFO ADMIN	9.3	9.3	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	.4	*	-	-	-	-	-	-	-	.4
PATENT AND TRADEMARK OFFICE	.6	.6	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,787.7	3,940.4	8,702.1	124.7	457.0	137.2	107.3	240.6	.2	78.1
DEPARTMENT OF THE ARMY	2,951.9	1,174.7	1,665.5	1.3	52.3	22.1	23.2	5.9	.2	6.8
DEPARTMENT OF THE NAVY	4,809.6	1,409.7	2,943.3	120.0	216.4	16.4	34.7	5.5	-	63.6
DEPARTMENT OF THE AIR FORCE	5,021.8	1,081.5	3,495.9	-	155.7	54.5	26.3	200.7	-	7.3
DEFENSE AGENCIES	971.7	248.8	594.0	3.4	32.6	44.2	23.2	25.0	-	.5
DIRECTOR OF TEST & EVAL, DEFENSE ...	32.6	25.6	3.5	-	-	-	-	3.5	-	-
DEPARTMENT OF EDUCATION	153.1	20.4	8.3	-	67.3	-	43.6	-	10.2	3.4
DEPARTMENT OF ENERGY	4,949.7	407.9	1,705.9	1,090.5	272.0	1,224.1	62.7	162.0	20.7	3.9
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	3,776.9	775.9	172.6	41.5	2,090.9	12.5	548.7	1.8	100.5	32.5
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	236.2	63.9	5.9	-	122.7	-	37.7	-	4.3	1.6
CENTER FOR DISEASE CONTROL	94.5	68.0	8.2	-	7.4	-	8.0	-	.3	2.6
FOOD & DRUG ADMINISTRATION	64.2	47.0	3.8	-	8.5	-	4.7	-	.1	-
HEALTH CARE FINANCING ADMIN	46.8	5.7	15.0	-	7.2	-	.1	-	18.7	-
HEALTH RESOURCES ADMINISTRATION	.3	*	-	-	.3	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	30.9	7.1	2.2	-	5.4	-	15.3	-	.9	-
NATIONAL INSTITUTES OF HEALTH	3,161.6	545.5	128.1	41.5	1,909.8	12.5	443.9	1.8	52.1	26.3
OFFICE OF ASST'T SECY FOR HEALTH ...	35.1	10.9	4.2	-	13.6	-	4.4	-	.2	1.9
OFF OF HUMAN DEVELOPMENT SVCS	60.5	5.4	2.8	-	12.7	-	25.7	-	13.9	-
OFFICE OF THE SECRETARY	24.0	3.2	1.1	-	2.1	-	8.5	-	9.2	-
SOCIAL SECURITY ADMINISTRATION	22.8	19.1	1.4	-	1.1	-	.2	-	.9	-
DEPT OF HOUSING & URBAN DEV	61.5	24.4	18.5	-	4.7	-	12.7	-	1.2	-
DEPARTMENT OF THE INTERIOR, TOTAL	425.6	252.9	72.9	-	44.8	.6	3.4	.3	48.1	2.7
BUREAU OF LAND MANAGEMENT	1.7	.7	-	-	.9	-	-	-	-	-
BUREAU OF MINES	116.7	55.7	50.0	-	7.3	.3	3.0	.2	.2	-
GEOLOGICAL SURVEY	153.2	140.6	3.3	-	9.3	-	-	-	-	-
NATIONAL PARK SERVICE	9.0	5.9	.1	-	3.0	-	*	-	-	-
OFFICE OF THE SECRETARY	4.1	.9	.5	-	-	-	-	-	-	2.7
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7.3	.3	.9	-	6.2	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	30.3	1.7	15.4	-	13.1	-	-	-	.1	-
US FISH & WILDLIFE SERVICE	89.1	39.7	.5	-	2.1	.3	.4	.1	46.2	-
WATER & POWER RESOURCES SVC	14.2	7.3	2.2	-	3.0	-	-	-	1.6	-
DEPARTMENT OF JUSTICE, TOTAL	47.6	6.6	5.9	-	7.2	-	25.1	.6	2.2	-
DRUG ENFORCEMENT ADMIN	4.4	1.5	2.3	-	-	-	-	.6	-	-
FEDERAL BUREAU OF INVESTIGATION	2.2	.2	2.0	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	4.1	.9	-	-	.5	-	2.2	-	.5	-
IMMIGRATION & NATURALIZATION SVC ...	.8	.4	.4	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1.7	*	1.0	-	.5	-	.2	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	34.4	3.6	.2	-	6.2	-	22.7	-	1.7	-
DEPARTMENT OF LABOR, TOTAL	164.0	22.7	25.5	-	10.6	*	14.3	-	91.0	-
BUREAU OF LABOR STATISTICS	.9	.9	.1	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	6.3	5.8	.3	-	.3	*	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	145.4	12.8	18.0	-	9.5	-	14.1	-	91.0	-
LABOR-MANAGEMENT SERVICES ADMIN	3.2	1.6	.7	-	.7	-	.2	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN .	6.5	.2	6.3	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1.6	1.4	.2	-	*	-	*	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	2.8	0.7	1.2	0.1	0.4	*	0.3	0.1	-	-
DEPARTMENTAL FUNDS	2.8	.7	1.2	.1	.4	*	.3	.1	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	362.2	108.7	174.3	-	20.2	0.5	18.2	-	40.3	-
COAST GUARD	22.0	6.5	14.8	-	.7	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	103.1	24.6	67.4	-	.1	-	11.0	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	55.2	12.8	6.2	-	9.2	-	1.3	-	25.8	-
FEDERAL RAILROAD ADMINISTRATION	48.1	16.3	27.7	-	.8	-	1.2	-	2.0	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	59.0	12.6	32.8	-	2.9	-	2.6	-	8.0	-
OFFICE OF THE SECRETARY	12.5	4.1	8.2	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	14.4	8.4	2.1	-	3.9	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	47.9	23.3	15.1	-	2.5	.5	2.0	-	4.5	-
DEPARTMENT OF THE TREASURY, TOTAL	12.5	5.9	5.1	.5	.3	*	.1	.5	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1.6	.2	.8	-	*	*	-	.5	-	-
BUREAU OF ENGRAVING AND PRINTING ...	3.7	2.5	1.2	-	-	-	-	-	-	-
CUSTOMS SERVICE	3.6	.8	2.0	.5	.2	-	-	-	-	-
INTERNAL REVENUE SERVICE	3.6	2.4	1.2	-	-	-	.1	-	-	-
OTHER AGENCIES										
ACTION	1.6	.1	-	-	-	-	1.5	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.7	1.7	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.8	.1	.4	-	-	-	-	-	.3	-
CIVIL AERONAUTICS BOARD	.7	.7	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	25.0	1.5	-	-	-	-	23.5	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3.5	1.9	1.5	-	.1	-	*	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	414.8	165.4	107.8	-	52.5	-	48.1	-	39.2	1.8
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	15.0	.8	11.3	3.0	-	-	-	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	3.9	2.0	2.0	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	11.8	3.9	2.3	-	2.0	.1	3.0	.1	.5	-
FEDERAL HOME LOAN BANK BOARD	1.2	1.1	-	-	.1	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.3	1.3	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	.3	*	.3	-	-	-	*	-	-	-
INTERNAT'L COMMUNICATION AGENCY	.2	.1	.1	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	118.9	6.1	4.8	-	44.8	-	10.7	.6	-	51.8
AGENCY FOR INTERNAT'L DEVELOPMENT ..	59.8	5.2	4.8	-	26.1	-	10.7	.6	-	12.3
INST FOR SCIEN & TECH COOPERATION ..	59.1	.9	-	-	18.8	-	-	-	-	39.5
INTERSTATE COMMERCE COMMISSION	.2	.2	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	5.3	5.0	.3	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	5,113.7	1,273.5	3,462.7	-	163.0	152.6	53.0	.4	1.3	7.3
NATIONAL SCIENCE FOUNDATION	904.3	67.3	15.8	2.2	702.3	65.6	45.5	.2	3.9	1.5
NUCLEAR REGULATORY COMMISSION	196.3	13.3	9.0	126.1	6.5	27.9	1.7	11.0	.2	.6
OFFICE OF PERSONNEL MANAGEMENT	6.7	3.9	.6	-	.8	-	.1	-	1.5	-
SMITHSONIAN INSTITUTION	41.0	37.3	-	-	1.4	-	2.3	-	-	-
TENNESSEE VALLEY AUTHORITY	59.0	41.0	-	-	.2	-	17.7	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	3.8	.6	1.9	.2	.4	.4	.2	.1	-	.1
US INTERNAT'L TRADE COMMISSION	2.7	2.7	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	130.7	128.0	-	-	2.7	-	*	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	35,492.1	8,965.2	16,641.9	1,444.9	4,555.7	1,734.4	1085.4	474.9	406.8	182.8
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	777.5	531.1	10.3	-	226.5	-	.5	-	1.8	7.4
AGRICULTURAL MARKETING SERVICE	1.3	1.2	.1	-	*	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	44.6	43.6	-	-	1.0	-	-	-	-	-
FOREST SERVICE	124.1	111.5	.7	-	11.0	-	.1	-	.6	.3
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	8.6	1.9	-	-	.8	-	-	-	-	5.9
OFFICE OF TRANSPORTATION	.9	.9	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	598.0	372.0	9.5	-	213.7	-	.3	-	1.2	1.3
AGRICULTURAL RESEARCH	403.3	364.7	9.5	-	27.0	-	.3	-	.5	1.3
COOPERATIVE RESEARCH	194.6	7.3	-	-	186.7	-	-	-	.7	-
DEPARTMENT OF COMMERCE, TOTAL	372.6	239.2	38.3	.1	49.5	.5	18.7	-	26.1	.2
BUREAU OF THE CENSUS	3.3	3.0	-	-	.3	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	42.0	1.7	3.0	-	4.1	-	16.0	-	17.2	-
MARITIME ADMINISTRATION	17.3	1.8	14.4	-	.5	-	.2	-	.4	-
NATIONAL BUREAU OF STANDARDS	79.1	73.3	4.8	-	.9	-	.1	-	-	.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN	219.7	148.3	16.2	.1	.7	.5	2.4	-	8.5	.1
NAT'L TELECOMM & INFO ADMIN	10.1	10.1	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	1.1	1.1	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	16,604.4	4,730.0	10,559.0	127.0	542.7	151.9	113.9	308.6	.2	71.3
DEPARTMENT OF THE ARMY	3,363.9	1,360.4	1,862.5	1.3	73.0	20.4	30.2	9.0	.2	6.9
DEPARTMENT OF THE NAVY	4,891.3	1,513.6	2,902.9	125.0	239.2	18.9	29.8	7.2	-	54.8
DEPARTMENT OF THE AIR FORCE	7,059.9	1,520.1	4,978.8	-	197.5	59.4	34.7	260.5	-	9.0
DEFENSE AGENCIES	1,247.1	300.3	811.6	.7	33.0	53.1	19.2	28.6	-	.5
DIRECTOR OF TEST & EVAL, DEFENSE	42.2	35.6	3.4	-	-	-	-	3.3	-	-
DEPARTMENT OF EDUCATION	164.1	20.5	8.5	-	73.8	-	47.2	.7	11.1	2.3
DEPARTMENT OF ENERGY	4,994.8	403.9	1,601.6	1,124.8	297.9	1,337.6	67.0	146.4	11.1	4.5
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,907.5	799.6	171.8	42.1	2,204.5	16.2	543.4	1.8	96.7	31.4
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	262.1	67.8	7.0	-	138.0	-	42.3	-	5.2	1.8
CENTER FOR DISEASE CONTROL	97.2	69.2	8.5	-	8.7	-	8.3	-	.3	2.2
FOOD & DRUG ADMINISTRATION	66.2	48.4	4.0	-	8.4	-	5.3	-	.1	-
HEALTH CARE FINANCING ADMIN	52.4	6.4	16.8	-	8.1	-	.1	-	20.9	-
HEALTH SERVICES ADMINISTRATION	14.8	8.5	-	-	3.1	-	3.1	-	.1	-
NATIONAL INSTITUTES OF HEALTH	3,272.9	561.4	125.5	42.1	2,004.4	16.2	445.9	1.8	49.7	25.9
OFFICE OF ASST'T SECY FOR HEALTH	40.7	10.8	4.9	-	18.0	-	5.3	-	.2	1.5
OFF OF HUMAN DEVELOPMENT SVCS	54.0	5.0	2.4	-	11.1	-	23.1	-	12.3	-
OFFICE OF THE SECRETARY	24.0	2.4	1.4	-	3.6	-	9.7	-	7.0	-
SOCIAL SECURITY ADMINISTRATION	23.4	19.6	1.4	-	1.2	-	.2	-	.9	-
DEPT OF HOUSING & URBAN DEV	64.1	21.6	21.7	-	4.9	-	14.1	-	1.7	-
DEPARTMENT OF THE INTERIOR, TOTAL	425.0	252.9	64.5	.3	48.9	.6	3.4	.4	52.9	1.0
BUREAU OF LAND MANAGEMENT	1.6	.7	-	-	1.0	-	-	-	-	-
BUREAU OF MINES	109.0	52.8	45.0	-	7.5	.3	3.0	.2	.2	-
GEOLOGICAL SURVEY	151.5	140.5	1.1	-	9.8	-	-	-	-	-
NATIONAL PARK SERVICE	11.3	7.6	*	-	3.6	-	*	-	-	-
OFFICE OF THE SECRETARY	2.4	1.0	.4	-	-	-	-	-	-	1.0
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7.3	.4	.5	.3	5.8	-	-	.2	.1	-
OFFICE OF WATER RSCH & TECHNOLOGY	32.2	1.7	14.6	-	15.8	-	-	-	.1	-
US FISH & WILDLIFE SERVICE	96.1	41.7	.6	-	2.3	.3	.4	.1	50.8	-
WATER & POWER RESOURCES SVC	13.6	6.5	2.3	-	3.1	-	-	-	1.8	-
DEPARTMENT OF JUSTICE, TOTAL	42.6	5.1	3.1	-	7.4	-	24.8	.5	1.8	-
DRUG ENFORCEMENT ADMIN	3.1	.9	1.7	-	-	-	-	.5	-	-
FEDERAL BUREAU OF INVESTIGATION	.3	.3	*	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	4.2	1.0	-	-	.7	-	1.9	-	.6	-
IMMIGRATION & NATURALIZATION SVC	.4	.2	.2	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	2.2	*	1.0	-	.6	-	.5	-		-
OFF OF JUSTICE ASSIST, RSCH, & STAT	32.5	2.7	.2	-	6.1	-	22.3	-	1.2	-
DEPARTMENT OF LABOR, TOTAL	192.8	23.3	31.4	-	9.0	-	12.6	-	116.6	-
BUREAU OF LABOR STATISTICS	1.1	1.1	.1	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	6.5	6.5	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	169.9	12.2	20.5	-	8.3	-	12.4	-	116.6	-
LABOR-MANAGEMENT SERVICES ADMIN	3.3	1.7	.7	-	.7	-	.2	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	10.3	.3	10.0	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1.8	1.6	.2	-	*	-	*	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-9. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	2.7	0.7	1.2	0.1	0.3	*	0.3	0.1	-	-
DEPARTMENTAL FUNDS	2.7	.7	1.2	.1	.3	*	.3	.1	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	378.3	113.2	186.9	-	20.6	0.5	17.2	-	40.0	-
COAST GUARD	24.0	7.0	16.2	-	.8	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	115.1	27.4	77.0	-	.1	-	10.6	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	55.5	12.8	6.1	-	9.4	-	1.4	-	25.9	-
FEDERAL RAILROAD ADMINISTRATION	45.8	16.5	25.6	-	.7	-	1.1	-	1.9	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	62.5	13.1	34.4	-	3.1	-	3.1	-	8.8	-
OFFICE OF THE SECRETARY	12.0	4.0	7.9	-	.1	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	14.6	9.0	1.7	-	3.9	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	48.9	23.4	18.0	-	2.5	.5	1.0	-	3.5	-
DEPARTMENT OF THE TREASURY, TOTAL	11.9	7.3	4.1	-	.2	*	.1	.3	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	.8	.1	.4	-	*	*	-	.3	-	-
BUREAU OF ENGRAVING AND PRINTING	4.0	4.0	*	-	-	-	-	-	-	-
CUSTOMS SERVICE	3.2	1.1	2.0	-	.2	-	-	-	-	-
INTERNAL REVENUE SERVICE	3.9	2.1	1.7	-	-	-	.1	-	-	-
OTHER AGENCIES										
ACTION	2.6	.2	-	-	-	-	2.4	-	-	-
ADVISORY COMM ON INTERGOV'TL RELATIONS	1.8	1.8	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	.8	.1	.3	-	-	-	.1	-	.3	-
CIVIL AERONAUTICS BOARD	.6	.6	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	24.0	1.5	-	-	-	-	22.5	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	4.9	1.4	3.3	-	.1	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	444.9	180.9	115.8	-	52.5	-	51.5	2.5	38.7	3.0
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	39.0	2.6	23.3	5.4	4.8	-	3.0	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	3.3	2.2	1.1	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	14.2	4.1	3.3	-	1.8	.3	3.9	.2	.7	-
FEDERAL HOME LOAN BANK BOARD	1.3	1.2	-	-	.1	-	-	-	-	-
FEDERAL TRADE COMMISSION	1.5	1.5	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	.4	*	.4	-	-	-	*	-	-	-
INTERNAT'L COMMUNICATION AGENCY	.1	.1	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	131.4	6.4	7.0	-	54.4	-	10.6	.5	-	52.5
AGENCY FOR INTERNAT'L DEVELOPMENT	73.5	5.5	7.0	-	37.3	-	10.6	.5	-	12.6
INST FOR SCIEN & TECH COOPERATION	57.9	.9	-	-	17.2	-	-	-	-	39.8
INTERSTATE COMMERCE COMMISSION	.2	.2	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	5.2	4.8	.4	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	5,397.7	1,290.9	3,746.7	-	167.0	127.9	56.2	.4	1.3	7.3
NATIONAL SCIENCE FOUNDATION	994.8	69.0	21.7	2.3	775.6	72.5	48.0	.3	4.2	1.3
NUCLEAR REGULATORY COMMISSION	217.9	14.7	13.2	142.9	6.6	26.0	1.3	12.3	.2	.8
OFFICE OF PERSONNEL MANAGEMENT	8.1	3.9	.9	-	1.6	-	.2	-	1.5	-
SMITHSONIAN INSTITUTION	45.2	41.3	-	-	1.5	-	2.4	-	-	-
TENNESSEE VALLEY AUTHORITY	72.1	52.0	-	-	.2	-	19.8	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	3.9	.5	2.0	.1	.4	.4	.2	.2	-	.1
US INTERNAT'L TRADE COMMISSION	4.1	4.1	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	133.7	130.8	-	-	2.7	-	.2	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	10,673,170	3,450,849	1,927,213	244,980	3,340,401	800,601	618,903	73,352	139,466	77,405
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	631,920	426,444	4,407	-	198,100	-	312	-	1,262	1,395
AGRICULTURAL MARKETING SERVICE	445	345	75	-	25	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	35,500	34,544	-	-	956	-	-	-	-	-
FOREST SERVICE	102,500	91,535	571	-	9,506	-	179	-	483	226
SCIENCE & EDUCATION ADMINISTRATION	493,475	300,020	3,761	-	187,613	-	133	-	779	1,169
AGRICULTURAL RESEARCH	320,918	294,110	3,761	-	21,537	-	133	-	208	1,169
COOPERATIVE RESEARCH	172,557	5,910	-	-	166,076	-	-	-	571	-
DEPARTMENT OF COMMERCE, TOTAL	219,458	159,729	17,174	-	28,239	270	4,887	-	8,864	295
BUREAU OF THE CENSUS	1,824	1,666	-	-	158	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	8,500	995	1,811	-	1,100	-	2,773	-	1,821	-
MARITIME ADMINISTRATION	12,161	1,775	9,607	-	581	-	100	-	-	98
NATIONAL BUREAU OF STANDARDS	51,800	50,836	406	-	558	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	142,691	102,055	5,350	-	25,842	270	2,014	-	7,043	117
NAT'L TELECOMM & INFO ADMIN	2,400	2,400	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	82	2	-	-	-	-	-	-	-	80
DEPARTMENT OF DEFENSE, TOTAL	2,151,632	808,872	915,833	2,155	278,212	65,161	55,437	13,800	33	12,129
DEPARTMENT OF THE ARMY	462,212	309,259	88,296	-	40,114	1,729	19,431	440	33	2,910
DEPARTMENT OF THE NAVY	432,800	232,920	61,042	-	111,951	16,721	4,782	1,160	-	4,224
DEPARTMENT OF THE AIR FORCE	750,700	176,014	446,149	-	94,486	19,760	9,672	35	-	4,584
DEFENSE AGENCIES	505,920	90,679	320,346	2,155	31,661	26,951	21,552	12,165	-	411
DEPARTMENT OF EDUCATION	93,392	9,556	2,734	-	46,890	-	26,697	280	6,217	1,018
DEPARTMENT OF ENERGY	1,131,846	53,304	68,203	129,451	203,754	598,513	32,684	44,031	471	1,435
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,015,669	681,906	112,555	23,318	1,706,438	9,037	391,465	1,204	64,238	25,508
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	213,535	56,745	4,595	-	115,154	-	31,877	-	3,841	1,323
CENTER FOR DISEASE CONTROL	76,271	55,964	6,251	-	6,670	-	5,021	-	143	2,222
FOOD & DRUG ADMINISTRATION	60,979	44,068	3,770	-	8,493	-	4,531	-	117	-
HEALTH CARE FINANCING ADMIN	31,828	3,682	10,273	-	4,968	-	90	-	12,815	-
HEALTH RESOURCES ADMINISTRATION	4,944	150	-	-	4,794	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	10,201	5,040	-	-	3,497	-	822	-	81	761
NATIONAL INSTITUTES OF HEALTH	2,530,111	487,427	81,161	23,318	1,541,965	9,037	331,457	1,204	35,007	19,535
OFFICE OF ASST'T SECY FOR HEALTH	29,894	8,742	3,397	-	12,404	-	3,630	-	107	1,614
OFF OF HUMAN DEVELOPMENT SVCS	14,863	1,472	610	-	4,890	-	5,760	-	2,128	3
OFFICE OF THE SECRETARY	24,715	3,276	1,355	-	2,621	-	8,154	-	9,309	-
SOCIAL SECURITY ADMINISTRATION	18,328	15,340	1,143	-	982	-	123	-	690	50
DEPT OF HOUSING & URBAN DEV	23,770	14,680	3,400	-	1,864	-	3,737	-	89	-
DEPARTMENT OF THE INTERIOR, TOTAL	339,468	219,753	39,902	-	37,577	220	1,630	113	40,120	153
BUREAU OF LAND MANAGEMENT	1,121	580	-	-	541	-	-	-	-	-
BUREAU OF MINES	79,100	41,700	34,000	-	2,150	150	1,000	100	-	-
GEOLOGICAL SURVEY	145,071	133,614	833	-	10,611	-	-	-	13	-
NATIONAL PARK SERVICE	8,944	5,898	95	-	2,926	-	25	-	-	-
OFFICE OF THE SECRETARY	1,413	848	412	-	-	-	-	-	-	153
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	4,978	1,434	160	-	2,868	-	516	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	17,800	1,810	2,073	-	13,917	-	-	-	-	-
US FISH & WILDLIFE SERVICE	69,641	28,590	277	-	1,764	70	89	13	38,838	-
WATER & POWER RESOURCES SVC	11,400	5,279	2,052	-	2,800	-	-	-	1,269	-
DEPARTMENT OF JUSTICE, TOTAL	28,846	2,948	1,181	-	7,137	-	16,932	-	648	-
DRUG ENFORCEMENT ADMIN	700	100	600	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	498	4	-	-	198	-	198	-	98	-
IMMIGRATION & NATURALIZATION SVC	100	18	82	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,648	18	341	-	868	-	421	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	25,900	2,808	158	-	6,071	-	16,313	-	550	-
DEPARTMENT OF LABOR, TOTAL	42,082	15,916	17,408	-	4,970	35	3,486	-	267	-
BUREAU OF LABOR STATISTICS	912	855	57	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	5,338	3,455	249	-	294	10	1,330	-	-	-
EMPLOYMENT & TRAINING ADMIN	25,942	8,110	11,623	-	3,961	-	1,981	-	267	-
LABOR-MANAGEMENT SERVICES ADMIN	3,183	1,725	583	-	700	-	175	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,107	406	4,701	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,600	1,365	195	-	15	25	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-10. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	2,694	894	1,004	-	281	-	446	69	-	-
DEPARTMENTAL FUNDS	2,694	894	1,004	-	281	-	446	69	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL ..	66,983	21,721	34,269	-	3,700	-	2,609	-	4,684	-
COAST GUARD	10,900	3,000	7,700	-	200	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,500	1,650	5,850	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,400	1,210	1,793	-	-	-	1,259	-	138	-
FEDERAL RAILROAD ADMINISTRATION	7,500	5,840	1,660	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	30,003	6,306	16,801	-	1,500	-	1,350	-	4,046	-
OFFICE OF THE SECRETARY	580	215	365	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,000	2,900	100	-	2,000	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	600	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	4,718	2,212	2,142	-	25	28	-	311	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	655	60	231	-	25	28	-	311	-	-
BUREAU OF ENGRAVING AND PRINTING ...	593	577	16	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,470	1,575	1,895	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,696	1,696	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	650	50	348	-	-	-	122	-	130	-
CIVIL AERONAUTICS BOARD	631	631	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,813	20	-	-	-	-	1,793	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,800	882	882	-	36	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	259,000	119,360	64,790	-	46,420	-	14,500	1,350	10,280	2,300
FEDERAL COMMUNICATIONS COMMISSION	2,900	1,397	1,503	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,719	3,229	2,050	-	1,889	-	1,952	125	474	-
FEDERAL HOME LOAN BANK BOARD	863	863	-	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,521	1,521	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	158	15	111	-	-	-	32	-	-	-
INTERNAT'L COMMUNICATION AGENCY	77	62	15	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	66,886	6,458	1,344	-	28,322	-	1,195	207	-	29,360
AGENCY FOR INTERNAT'L DEVELOPMENT ..	66,886	6,458	1,344	-	28,322	-	1,195	207	-	29,360
INTERSTATE COMMERCE COMMISSION	150	150	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	600	600	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,451,236	661,380	613,660	-	125,296	35,081	13,029	329	98	2,363
NATIONAL SCIENCE FOUNDATION	800,025	63,082	16,334	1,997	612,221	67,364	36,740	176	1,293	818
NUCLEAR REGULATORY COMMISSION	148,772	9,679	4,340	88,059	6,809	24,696	2,963	11,297	298	631
OFFICE OF PERSONNEL MANAGEMENT	1,354	1,354	-	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	36,901	33,685	-	-	1,224	-	1,992	-	-	-
TENNESSEE VALLEY AUTHORITY	16,451	12,312	-	-	200	-	3,939	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,710	460	1,624	-	196	196	174	60	-	-
US INTERNAT'L TRADE COMMISSION	3,417	3,417	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	111,362	110,611	-	-	601	-	150	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	11,803,101	3,712,547	2,225,676	315,859	3,666,825	882,732	653,904	84,913	168,725	91,920
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	697,442	475,462	6,547	-	212,294	-	313	-	1,455	1,371
AGRICULTURAL MARKETING SERVICE	619	519	75	-	25	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	42,100	41,100	-	-	1,000	-	-	-	-	-
FOREST SERVICE	106,600	96,137	607	-	9,000	-	106	-	509	241
SCIENCE & EDUCATION ADMINISTRATION	548,123	337,706	5,865	-	202,269	-	207	-	946	1,130
AGRICULTURAL RESEARCH	362,054	330,827	5,865	-	23,700	-	207	-	325	1,130
COOPERATIVE RESEARCH	186,069	6,879	-	-	178,569	-	-	-	621	-
DEPARTMENT OF COMMERCE, TOTAL	244,530	180,365	18,523	-	35,379	300	2,342	-	7,060	561
BUREAU OF THE CENSUS	1,647	1,353	-	-	294	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	2,500	218	404	-	1,100	-	718	-	60	-
MARITIME ADMINISTRATION	12,174	1,703	10,221	-	250	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	59,400	58,408	422	-	570	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	159,861	110,180	7,476	-	33,165	300	1,624	-	7,000	116
NAT'L TELECOMM & INFO ADMIN	8,500	8,500	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	448	3	-	-	-	-	-	-	-	445
DEPARTMENT OF DEFENSE, TOTAL	2,434,495	864,325	1,094,952	3,424	308,134	76,663	52,844	17,370	50	16,733
DEPARTMENT OF THE ARMY	534,045	338,716	126,973	-	46,735	1,590	16,006	880	50	3,095
DEPARTMENT OF THE NAVY	496,000	247,475	98,997	-	122,057	11,730	5,943	1,430	-	8,368
DEPARTMENT OF THE AIR FORCE	808,300	180,753	485,673	-	107,756	19,160	10,162	35	-	4,761
DEFENSE AGENCIES	596,150	97,381	383,309	3,424	31,586	44,183	20,733	15,025	-	509
DEPARTMENT OF EDUCATION	89,462	9,978	2,340	-	45,577	-	22,168	-	6,145	3,254
DEPARTMENT OF ENERGY	1,269,664	58,732	83,939	149,212	224,831	655,774	40,870	54,032	747	1,527
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,282,519	728,312	131,756	34,676	1,854,452	9,844	416,393	1,208	79,428	26,450
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	234,644	63,743	5,928	-	122,701	-	36,362	-	4,265	1,645
CENTER FOR DISEASE CONTROL	94,480	68,015	8,182	-	7,400	-	7,962	-	273	2,648
FOOD & DRUG ADMINISTRATION	64,159	47,043	3,821	-	8,493	-	4,682	-	120	-
HEALTH CARE FINANCING ADMIN	46,782	5,740	14,988	-	7,242	-	131	-	18,681	-
HEALTH RESOURCES ADMINISTRATION	265	8	-	-	257	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	7,530	4,020	-	-	2,775	-	669	-	66	-
NATIONAL INSTITUTES OF HEALTH	2,743,798	507,045	92,533	34,676	1,686,665	9,844	348,543	1,208	43,031	20,253
OFFICE OF ASST'T SECY FOR HEALTH	28,628	8,633	3,311	-	11,133	-	3,536	-	111	1,904
OFF OF HUMAN DEVELOPMENT SVCS	15,449	1,724	576	-	4,569	-	5,760	-	2,820	-
OFFICE OF THE SECRETARY	24,000	3,202	1,050	-	2,078	-	8,520	-	9,150	-
SOCIAL SECURITY ADMINISTRATION	22,784	19,139	1,367	-	1,139	-	228	-	911	-
DEPT OF HOUSING & URBAN DEV	23,370	13,408	3,900	-	2,015	-	3,847	-	200	-
DEPARTMENT OF THE INTERIOR, TOTAL	362,706	225,330	46,121	-	39,427	155	1,096	10	47,914	2,653
BUREAU OF LAND MANAGEMENT	1,323	584	-	-	739	-	-	-	-	-
BUREAU OF MINES	79,800	42,500	33,900	-	2,300	100	1,000	-	-	-
GEOLOGICAL SURVEY	152,685	140,078	3,314	-	9,293	-	-	-	-	-
NATIONAL PARK SERVICE	8,985	5,934	71	-	2,955	-	25	-	-	-
OFFICE OF THE SECRETARY	4,075	940	482	-	-	-	-	-	-	2,653
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,300	250	860	-	6,190	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	19,300	1,100	5,000	-	13,100	-	-	-	100	-
US FISH & WILDLIFE SERVICE	76,238	27,814	260	-	1,850	55	71	10	46,178	-
WATER & POWER RESOURCES SVC	13,000	6,130	2,234	-	3,000	-	-	-	1,636	-
DEPARTMENT OF JUSTICE, TOTAL	31,300	3,705	1,900	-	5,803	-	18,887	-	1,005	-
DRUG ENFORCEMENT ADMIN	1,400	500	900	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	650	5	-	-	112	-	403	-	130	-
IMMIGRATION & NATURALIZATION SVC	400	200	200	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,250	15	600	-	455	-	180	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	27,600	2,985	200	-	5,236	-	18,304	-	875	-
DEPARTMENT OF LABOR, TOTAL	45,182	20,522	15,181	-	6,242	10	2,969	-	258	-
BUREAU OF LABOR STATISTICS	925	860	65	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	6,348	5,788	250	-	300	10	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	26,574	10,624	7,696	-	5,227	-	2,769	-	258	-
LABOR-MANAGEMENT SERVICES ADMIN	3,189	1,639	675	-	700	-	175	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	246	6,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,600	1,365	195	-	15	-	25	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-11. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF STATE, TOTAL	2,366	665	850	60	375	40	320	56	-	-
DEPARTMENTAL FUNDS	2,366	665	850	60	375	40	320	56	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	70,352	22,883	35,651	-	3,866	-	2,633	-	5,319	-
COAST GUARD	10,100	3,500	6,400	-	200	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,700	1,694	6,006	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,100	1,300	2,350	-	-	-	1,300	-	150	-
FEDERAL RAILROAD ADMINISTRATION	7,900	6,085	1,815	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	33,332	6,999	18,665	-	1,666	-	1,333	-	4,669	-
OFFICE OF THE SECRETARY	620	205	415	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	4,500	2,500	-	-	2,000	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	600	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	4,872	3,331	1,364	-	40	26	80	31	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	80	169	-	40	26	-	31	-	-
BUREAU OF ENGRAVING AND PRINTING	829	804	25	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,597	2,347	1,170	-	-	-	80	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,717	1,717	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	350	-	-	-	-	-	200	-
CIVIL AERONAUTICS BOARD	653	653	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,000	20	-	-	-	-	980	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	1,600	672	848	-	80	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	258,500	106,840	68,170	-	48,900	-	18,550	-	14,240	1,800
FEDERAL COMMUNICATIONS COMMISSION	3,930	1,978	1,952	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	9,330	2,519	2,194	-	1,969	50	2,022	105	471	-
FEDERAL HOME LOAN BANK BOARD	1,211	1,127	-	-	84	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,343	1,343	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	117	1	79	-	-	-	37	-	-	-
INTERNAT'L COMMUNICATION AGENCY	179	102	77	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	74,632	6,108	2,263	-	30,459	-	2,155	525	-	33,122
AGENCY FOR INTERNAT'L DEVELOPMENT	31,265	5,228	2,263	-	16,222	-	2,155	525	-	4,872
INST FOR SCIEN & TECH COOPERATION	43,367	880	-	-	14,237	-	-	-	-	28,250
INTERSTATE COMMERCE COMMISSION	161	161	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	700	700	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,614,674	729,500	680,795	-	141,000	46,174	14,530	329	100	2,246
NATIONAL SCIENCE FOUNDATION	895,331	67,067	15,781	2,235	696,926	65,607	42,168	185	3,891	1,471
NUCLEAR REGULATORY COMMISSION	196,325	13,275	9,018	126,052	6,514	27,889	1,696	11,007	242	632
OFFICE OF PERSONNEL MANAGEMENT	1,844	1,669	25	-	125	-	25	-	-	-
SMITHSONIAN INSTITUTION	41,025	37,276	-	-	1,426	-	2,323	-	-	-
TENNESSEE VALLEY AUTHORITY	22,106	17,480	-	-	200	-	4,426	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	2,730	520	1,100	200	355	200	200	55	-	100
US INTERNAT'L TRADE COMMISSION	2,679	2,679	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	112,454	112,072	-	-	352	-	30	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	12,908,292	3,977,677	2,545,030	348,057	3,989,600	987,075	685,118	95,244	177,519	102,972
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	742,330	498,909	9,648	-	224,723	-	433	-	1,721	6,896
AGRICULTURAL MARKETING SERVICE	614	514	75	-	25	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	44,600	43,600	-	-	1,000	-	-	-	-	-
FOREST SERVICE	118,000	105,366	679	-	11,000	-	118	-	568	269
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	8,210	1,925	-	-	825	-	-	-	-	5,460
SCIENCE & EDUCATION ADMINISTRATION	570,906	347,504	8,894	-	211,873	-	315	-	1,153	1,167
AGRICULTURAL RESEARCH	376,278	340,233	8,894	-	25,176	-	315	-	493	1,167
COOPERATIVE RESEARCH	194,628	7,271	-	-	186,697	-	-	-	660	-
DEPARTMENT OF COMMERCE, TOTAL	269,653	195,752	18,452	-	43,720	350	2,786	-	8,510	83
BUREAU OF THE CENSUS	1,679	1,370	-	-	309	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	2,500	218	404	-	1,100	-	718	-	60	-
MARITIME ADMINISTRATION	10,415	1,703	8,462	-	250	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	62,600	61,608	422	-	570	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	183,276	121,670	9,164	-	41,491	350	2,068	-	8,450	83
NAT'L TELECOMM & INFO ADMIN	9,183	9,183	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,960,279	1,016,928	1,385,732	650	369,654	90,357	59,558	18,086	50	19,264
DEPARTMENT OF THE ARMY	713,195	424,026	193,825	-	66,754	-	24,125	996	50	3,419
DEPARTMENT OF THE NAVY	599,100	307,398	114,573	-	143,315	15,538	6,805	1,460	-	10,011
DEPARTMENT OF THE AIR FORCE	897,100	187,252	544,086	-	127,569	21,670	11,198	40	-	5,285
DEFENSE AGENCIES	750,884	98,252	533,248	650	32,016	53,149	17,430	15,590	-	549
DEPARTMENT OF EDUCATION	100,213	11,478	2,921	-	50,503	-	25,766	700	6,595	2,250
DEPARTMENT OF ENERGY	1,424,970	55,309	96,972	165,418	256,534	745,135	44,061	58,955	655	1,931
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,431,097	751,295	133,855	36,390	1,964,971	12,256	422,491	1,192	80,762	27,885
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	260,405	67,665	6,981	-	137,977	-	40,805	-	5,183	1,794
CENTER FOR DISEASE CONTROL	97,169	69,234	8,513	-	8,700	-	8,284	-	284	2,154
FOOD & DRUG ADMINISTRATION	66,212	48,419	3,993	-	8,363	-	5,319	-	118	-
HEALTH CARE FINANCING ADMIN	52,357	6,424	16,774	-	8,105	-	147	-	20,907	-
HEALTH SERVICES ADMINISTRATION	7,172	4,429	-	-	2,129	-	513	-	51	-
NATIONAL INSTITUTES OF HEALTH	2,856,01[illegible]	522,778	90,802	36,390	1,776,943	12,256	349,261	1,192	43,967	22,423
OFFICE OF ASST'T SECY FOR HEALTH	32,409	8,772	3,568	-	14,607	-	3,819	-	129	1,514
OFF OF HUMAN DEVELOPMENT SVCS	12,024	1,527	470	-	3,380	-	4,459	-	2,188	-
OFFICE OF THE SECRETARY	24,000	2,402	1,350	-	3,598	-	9,650	-	7,000	-
SOCIAL SECURITY ADMINISTRATION	23,387	19,645	1,404	-	1,169	-	234	-	935	-
DEPT OF HOUSING & URBAN DEV	25,776	11,602	6,755	-	1,945	-	4,898	-	576	-
DEPARTMENT OF THE INTERIOR, TOTAL	366,016	227,624	39,470	275	43,488	161	1,102	176	52,720	1,000
BUREAU OF LAND MANAGEMENT	1,308	523	-	-	785	-	-	-	-	-
BUREAU OF MINES	77,400	42,000	31,800	-	2,500	100	1,000	-	-	-
GEOLOGICAL SURVEY	151,478	140,542	1,136	-	9,800	-	-	-	-	-
NATIONAL PARK SERVICE	11,295	7,633	19	-	3,618	-	25	-	-	-
OFFICE OF THE SECRETARY	2,428	1,003	425	-	-	-	-	-	-	1,000
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,260	375	505	275	5,830	-	-	165	110	-
OFFICE OF WATER RSCH & TECHNOLOGY	20,000	1,100	3,000	-	15,800	-	-	-	100	-
US FISH & WILDLIFE SERVICE	82,347	29,092	316	-	2,055	61	77	11	50,735	-
WATER & POWER RESOURCES SVC	12,500	5,356	2,269	-	3,100	-	-	-	1,775	-
DEPARTMENT OF JUSTICE, TOTAL	29,941	2,857	1,577	-	5,750	-	18,818	-	939	-
DRUG ENFORCEMENT ADMIN	1,100	400	700	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	798	6	-	-	210	-	343	-	239	-
IMMIGRATION & NATURALIZATION SVC	200	100	100	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,643	16	627	-	500	-	500	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	26,200	2,335	150	-	5,040	-	17,975	-	700	-
DEPARTMENT OF LABOR, TOTAL	51,682	20,945	22,292	-	5,495	-	2,758	-	192	-
BUREAU OF LABOR STATISTICS	1,117	1,052	65	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	6,483	6,483	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	28,725	9,863	11,332	-	4,780	-	2,558	-	192	-
LABOR MANAGEMENT SERVICES ADMIN	3,257	1,682	700	-	700	-	175	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	10,300	300	10,000	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,800	1,565	195	-	15	-	25	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-12. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1961 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF STATE, TOTAL	2,269	660	850	60	283	40	320	56	-	-
DEPARTMENTAL FUNDS	2,269	660	850	60	283	40	320	56	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	84,100	23,507	47,437	-	4,145	-	3,195	-	5,816	-
COAST GUARD	15,800	2,000	13,500	-	300	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	12,200	2,684	9,516	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,800	1,300	2,000	-	-	-	1,350	-	150	-
FEDERAL RAILROAD ADMINISTRATION	7,800	6,074	1,726	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	36,900	7,749	20,295	-	1,845	-	1,845	-	5,166	-
OFFICE OF THE SECRETARY	600	200	400	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	4,800	2,800	-	-	2,000	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,200	700	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	5,156	3,241	1,786	-	10	8	90	21	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	160	65	56	-	10	8	-	21	-	-
BUREAU OF ENGRAVING AND PRINTING	1,006	976	30	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,890	2,100	1,700	-	-	-	90	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,836	1,836	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	250	-	-	-	100	-	200	-
CIVIL AERONAUTICS BOARD	572	572	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,000	20	-	-	-	-	980	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION	3,100	300	2,700	-	100	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	285,200	121,410	74,490	-	48,630	-	21,470	2,500	13,700	3,000
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	12,000	1,200	3,000	-	4,800	-	3,000	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	3,318	2,219	1,099	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	11,739	2,759	3,157	-	1,821	295	2,865	154	688	-
FEDERAL HOME LOAN BANK BOARD	1,342	1,204	-	-	138	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,514	1,514	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	292	2	253	-	-	-	37	-	-	-
INTERNAT'L COMMUNICATION AGENCY	60	60	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	90,037	6,354	5,234	-	39,246	-	2,610	350	-	36,243
AGENCY FOR INTERNAT'L DEVELOPMENT	46,857	5,454	5,234	-	27,006	-	2,610	350	-	6,203
INST FOR SCIEN & TECH COOPERATION	43,180	900	-	-	12,240	-	-	-	-	30,040
INTERSTATE COMMERCE COMMISSION	240	240	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	500	500	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,600,864	748,562	650,397	-	145,000	39,747	14,482	329	100	2,247
NATIONAL SCIENCE FOUNDATION	983,770	68,621	21,708	2,314	768,903	72,489	44,062	250	4,135	1,288
NUCLEAR REGULATORY COMMISSION	217,928	14,660	13,187	142,850	6,639	25,987	1,335	12,325	160	785
OFFICE OF PERSONNEL MANAGEMENT	2,694	1,634	260	-	670	-	130	-	-	-
SMITHSONIAN INSTITUTION	45,221	41,286	-	-	1,497	-	2,438	-	-	-
TENNESSEE VALLEY AUTHORITY	28,268	23,110	-	-	200	-	4,958	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	3,273	500	1,548	100	400	250	225	150	-	100
US INTERNAT'L TRADE COMMISSION	4,059	4,059	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	115,383	114,898	-	-	335	-	150	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-13. FEDERAL OBLIGATIONS FOR RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1979	ESTIMATES	
		1980	1981
TOTAL, ALL FIELDS	10,673,170	11,803,101	12,908,292
LIFE SCIENCES, TOTAL	3,850,471	4,186,548	4,431,975
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,715,359	1,845,014	1,940,555
ENVIRONMENTAL BIOLOGY	216,481	223,902	242,015
AGRICULTURAL	401,520	447,511	493,731
MEDICAL	1,369,481	1,515,368	1,587,730
LIFE SCIENCES, NEC	147,630	154,753	167,944
PSYCHOLOGY, TOTAL	202,290	221,710	248,337
BIOLOGICAL ASPECTS	56,860	59,907	61,286
SOCIAL ASPECTS	88,150	96,303	117,813
PSYCHOLOGICAL SCIENCES, NEC	57,280	65,500	69,238
PHYSICAL SCIENCES, TOTAL	1,821,540	1,980,374	2,262,506
ASTRONOMY	283,291	290,536	308,413
CHEMISTRY	453,135	491,891	533,907
PHYSICS	1,044,279	1,140,876	1,344,788
PHYSICAL SCIENCES, NEC	40,835	57,071	75,398
ENVIRONMENTAL SCIENCES, TOTAL	1,103,382	1,249,932	1,328,531
ATMOSPHERIC	347,799	422,640	426,227
GEOLOGICAL	358,324	382,563	421,384
OCEANOGRAPHY	222,914	248,279	262,258
ENVIRONMENTAL SCIENCES, NEC	174,345	196,450	218,662
MATHEMATICS & COMPUTER SCIENCES, TOTAL	257,301	282,343	353,345
MATHEMATICS	81,134	89,995	104,169
COMPUTER SCIENCES	133,299	145,479	189,430
MATHEMATICS & COMPUTER SCIENCES, NEC	42,868	46,869	59,746
ENGINEERING, TOTAL	2,622,889	2,963,252	3,245,798
AERONAUTICAL	655,689	735,314	736,963
ASTRONAUTICAL	261,638	296,326	316,993
CHEMICAL	123,929	128,516	156,777
CIVIL	127,179	134,844	148,753
ELECTRICAL	457,485	518,524	619,658
MECHANICAL	232,902	267,483	268,273
METALLURGY & MATERIALS	251,006	279,470	319,047
ENGINEERING, NEC	513,061	602,775	679,334
SOCIAL SCIENCES, TOTAL	527,873	560,169	601,729
ANTHROPOLOGY	17,343	18,822	20,997
ECONOMICS	182,546	192,437	211,652
POLITICAL SCIENCE	13,916	16,060	18,988
SOCIOLOGY	64,475	68,093	72,027
SOCIAL SCIENCES, NEC	249,593	264,757	278,065
OTHER SCIENCES, NEC	287,424	350,773	436,071

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	10,673,170	3,850,471	202,290	1,821,540	1,103,382	257,301	2,622,889	527,873	287,424
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	631,920	436,301	102	50,645	13,644	4,072	45,453	81,703	-
AGRICULTURAL MARKETING SERVICE	445	445	-	-	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	35,500	-	-	-	-	937	-	34,563	-
FOREST SERVICE	102,500	65,482	102	3,861	10,733	1,481	12,135	8,706	-
SCIENCE & EDUCATION ADMINISTRATION	493,475	370,374	-	46,784	2,911	1,654	33,318	38,434	-
AGRICULTURAL RESEARCH	320,918	247,111	-	38,906	1,925	1,654	27,917	3,405	-
COOPERATIVE RESEARCH	172,557	123,263	-	7,878	986	-	5,401	35,029	-
DEPARTMENT OF COMMERCE, TOTAL	219,458	53,899	232	35,519	79,617	6,591	32,245	11,243	112
BUREAU OF THE CENSUS	1,824	-	232	-	-	1,256	-	308	28
ECONOMIC DEVELOPMENT ADMIN	8,500	-	-	-	-	-	-	8,500	-
MARITIME ADMINISTRATION	12,161	-	-	-	-	440	11,133	588	-
NATIONAL BUREAU OF STANDARDS	51,800	-	-	29,790	335	3,583	16,385	1,707	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	142,691	53,899	-	5,677	79,252	1,312	2,327	140	84
NAT'L TELECOMM & INFO ADMIN	2,400	-	-	-	-	-	2,400	-	-
OFFICE OF THE SECRETARY	82	-	-	52	30	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,151,632	155,019	65,681	385,389	152,215	160,423	1,108,789	8,374	115,742
DEPARTMENT OF THE ARMY	462,212	78,045	22,905	90,243	23,994	36,311	206,299	946	3,469
DEPARTMENT OF THE NAVY	432,800	23,590	11,139	106,183	69,949	40,232	180,119	1,588	-
DEPARTMENT OF THE AIR FORCE	750,700	43,578	25,227	120,081	18,870	45,930	496,415	-	599
DEFENSE AGENCIES	505,920	9,806	6,410	68,882	39,402	37,950	225,956	5,840	111,674
DEPARTMENT OF EDUCATION	93,392	14,846	1,916	-	-	-	5,897	61,384	9,349
DEPARTMENT OF ENERGY	1,131,846	138,087	-	663,352	102,563	9,233	204,169	2,906	11,536
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,015,669	2,517,063	104,699	69,797	-	7,607	42,100	168,740	105,663
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	213,535	114,788	64,167	624	-	849	209	29,631	3,267
CENTER FOR DISEASE CONTROL	76,271	76,271	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	60,979	60,979	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	31,828	-	-	-	-	-	-	31,828	-
HEALTH RESOURCES ADMINISTRATION	4,944	-	-	-	-	-	-	4,944	-
HEALTH SERVICES ADMINISTRATION	10,201	9,901	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	2,530,111	2,255,124	40,532	69,173	-	6,758	41,891	14,537	102,096
OFFICE OF ASST'T SECY FOR HEALTH	29,894	-	-	-	-	-	-	29,894	-
OFF OF HUMAN DEVELOPMENT SVCS	14,863	-	-	-	-	-	-	14,863	-
OFFICE OF THE SECRETARY	24,715	-	-	-	-	-	-	24,715	-
SOCIAL SECURITY ADMINISTRATION	18,328	-	-	-	-	-	-	18,328	-
DEPT OF HOUSING & URBAN DEV	23,770	-	-	-	-	-	3,507	20,263	-
DEPARTMENT OF THE INTERIOR, TOTAL	339,468	80,260	414	15,684	158,529	7,593	69,774	6,110	1,104
BUREAU OF LAND MANAGEMENT	1,121	889	-	-	160	-	-	72	-
BUREAU OF MINES	79,100	-	-	7,000	10,600	4,900	56,600	-	-
GEOLOGICAL SURVEY	145,071	-	-	6,592	130,404	2,177	5,818	80	-
NATIONAL PARK SERVICE	8,944	4,840	14	-	1,477	6	-	2,598	9
OFFICE OF THE SECRETARY	1,413	-	-	-	468	315	-	630	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	4,978	656	-	707	1,330	35	2,105	145	-
OFFICE OF WATER RSCH & TECHNOLOGY	17,800	3,860	400	1,385	5,185	160	3,335	2,450	1,025
US FISH & WILDLIFE SERVICE	69,641	69,641	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	11,400	374	-	-	8,905	-	1,916	135	70
DEPARTMENT OF JUSTICE, TOTAL	28,846	1,000	2,250	-	-	100	600	24,896	-
DRUG ENFORCEMENT ADMIN	700	-	100	-	-	100	500	-	-
FEDERAL PRISON SYSTEM	498	-	-	-	-	-	-	498	-
IMMIGRATION & NATURALIZATION SVC	100	-	-	-	-	-	100	-	-
OFFICE OF THE ATTORNEY GENERAL	1,648	-	-	-	-	-	-	1,648	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	25,900	1,000	2,150	-	-	-	-	22,750	-
DEPARTMENT OF LABOR, TOTAL	42,082	-	229	-	-	689	-	41,164	-
BUREAU OF LABOR STATISTICS	912	-	-	-	-	-	-	912	-
EMPLOYMENT STANDARDS ADMIN	5,338	-	-	-	-	-	-	5,338	-
EMPLOYMENT & TRAINING ADMIN	25,942	-	229	-	-	689	-	25,024	-
LABOR-MANAGEMENT SERVICES ADMIN	3,183	-	-	-	-	-	-	3,183	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,107	-	-	-	-	-	-	5,107	-
OFFICE OF THE SECRETARY	1,600	-	-	-	-	-	-	1,600	-
DEPARTMENT OF STATE, TOTAL	2,694	44	-	-	232	-	40	2,243	135
DEPARTMENTAL FUNDS	2,694	44	-	-	232	-	40	2,243	135

CONTINUED ON NEXT PAGE

TABLE C-14. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	66,983	3,183	-	1,000	1,400	10,943	35,742	10,190	4,525
COAST GUARD	10,900	-	-	1,000	1,000	-	4,500	75	4,325
FEDERAL AVIATION ADMINISTRATION	7,500	-	-	-	-	-	7,500	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,400	-	-	-	-	-	4,100	100	200
FEDERAL RAILROAD ADMINISTRATION	7,500	-	-	-	-	28	7,462	10	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	30,003	3,183	-	-	-	9,795	8,580	8,445	-
OFFICE OF THE SECRETARY	580	-	-	-	-	-	300	280	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,000	-	-	-	400	1,120	2,200	1,280	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	-	-	1,100	-	-
DEPARTMENT OF THE TREASURY, TOTAL	4,718	-	-	673	-	250	-	220	3,575
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	655	-	-	80	-	-	-	-	575
BUREAU OF ENGRAVING AND PRINTING ...	593	-	-	593	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,470	-	-	-	-	250	-	220	3,000
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,696	-	-	-	-	-	-	1,696	-
APPALACHIAN REGIONAL COMMISSION	650	-	-	-	-	-	-	650	-
CIVIL AERONAUTICS BOARD	631	-	-	-	-	-	-	631	-
COMMUNITY SERVICES ADMINISTRATION	1,813	-	-	-	-	-	-	1,813	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,800	1,590	-	-	-	-	210	-	-
ENVIRONMENTAL PROTECTION AGENCY	259,000	87,051	-	73,230	3,376	1,024	92,733	1,586	-
FEDERAL COMMUNICATIONS COMMISSION	2,900	-	-	-	-	73	1,305	1,522	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,719	391	224	3,529	-	496	2,935	1,214	930
FEDERAL HOME LOAN BANK BOARD	863	-	-	-	-	-	-	863	-
FEDERAL TRADE COMMISSION	1,521	-	-	-	-	-	-	1,521	-
GENERAL SERVICES ADMINISTRATION	158	-	-	14	-	-	144	-	-
INTERNAT'L COMMUNICATION AGENCY	77	-	-	-	-	-	77	-	-
INTERNAT'L DEV COOPERATION AGENCY	66,886	56,409	-	-	306	-	1,250	7,829	1,092
AGENCY FOR INTERNAT'L DEVELOPMENT ..	66,886	56,409	-	-	306	-	1,250	7,829	1,092
INTERSTATE COMMERCE COMMISSION	150	-	-	-	-	50	-	100	-
LIBRARY OF CONGRESS	600	-	-	-	-	-	-	-	600
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,451,236	53,816	1,634	304,789	368,137	2,716	717,299	149	2,696
NATIONAL SCIENCE FOUNDATION	800,025	137,927	12,453	205,781	220,206	45,149	96,539	51,605	30,365
NUCLEAR REGULATORY COMMISSION	148,772	-	-	-	-	-	148,772	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,354	-	1,354	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	36,901	14,810	-	6,670	2,898	-	-	12,523	-
TENNESSEE VALLEY AUTHORITY	16,451	2,498	-	5,390	-	-	8,563	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,710	-	-	78	259	292	763	1,318	-
US INTERNAT'L TRADE COMMISSION	3,417	-	-	-	-	-	-	3,417	-
VETERANS ADMINISTRATION	111,362	96,277	11,102	-	-	-	3,983	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES, NEC
TOTAL, ALL AGENCIES	11,803,101	4,186,548	221,710	1,980,374	1,249,932	282,343	2,963,252	560,169	358,773
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	697,442	480,479	106	56,303	14,743	3,961	50,111	91,739	-
AGRICULTURAL MARKETING SERVICE	619	619	-	-	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	42,100	-	-	-	-	1,112	-	40,988	-
FOREST SERVICE	106,600	68,170	106	4,031	11,145	1,550	12,618	8,980	-
SCIENCE & EDUCATION ADMINISTRATION	548,123	411,690	-	52,272	3,598	1,299	37,493	41,771	-
AGRICULTURAL RESEARCH	362,054	278,830	-	43,768	2,534	1,299	31,663	3,960	-
COOPERATIVE RESEARCH	186,069	132,860	-	8,504	1,064	-	5,830	37,811	-
DEPARTMENT OF COMMERCE, TOTAL	244,530	56,239	198	38,623	94,109	7,189	41,155	6,991	26
BUREAU OF THE CENSUS	1,647	-	198	-	-	1,147	-	276	26
ECONOMIC DEVELOPMENT ADMIN	2,500	-	-	-	-	-	-	2,500	-
MARITIME ADMINISTRATION	12,174	-	-	-	-	350	11,324	500	-
NATIONAL BUREAU OF STANDARDS	59,400	-	-	32,489	470	4,331	18,958	3,152	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	159,861	56,239	-	5,901	93,424	1,361	2,540	396	-
NAT'L TELECOMM & INFO ADMIN	8,500	-	-	-	-	-	8,333	167	-
OFFICE OF THE SECRETARY	448	-	-	233	215	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,434,495	176,270	72,167	422,365	181,906	176,461	1,243,805	8,643	152,878
DEPARTMENT OF THE ARMY	534,645	93,497	28,016	95,968	27,083	38,845	245,233	1,015	4,388
DEPARTMENT OF THE NAVY	496,000	27,000	13,923	124,685	73,908	45,721	208,900	1,863	-
DEPARTMENT OF THE AIR FORCE	808,300	44,693	24,299	101,812	38,648	55,861	542,303	-	684
DEFENSE AGENCIES	596,150	11,080	5,929	99,900	42,267	36,034	247,369	5,765	147,806
DEPARTMENT OF EDUCATION	89,462	16,893	2,454	-	-	-	5,889	55,011	9,215
DEPARTMENT OF ENERGY	1,269,664	149,335	-	745,755	116,637	11,764	221,486	3,331	21,356
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,282,519	2,737,419	114,159	76,054	-	8,548	45,744	185,686	114,909
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	234,644	127,049	70,126	1,037	-	914	235	32,016	3,267
CENTER FOR DISEASE CONTROL	94,480	94,480	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	64,159	64,159	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	46,782	-	-	-	-	-	-	46,782	-
HEALTH RESOURCES ADMINISTRATION	265	-	-	-	-	-	-	265	-
HEALTH SERVICES ADMINISTRATION	7,530	7,230	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	2,743,798	2,444,501	44,033	75,017	-	7,634	45,509	15,762	111,342
OFFICE OF ASST'T SECY FOR HEALTH	28,628	-	-	-	-	-	-	28,628	-
OFF OF HUMAN DEVELOPMENT SVCS	15,449	-	-	-	-	-	-	15,449	-
OFFICE OF THE SECRETARY	24,000	-	-	-	-	-	-	24,000	-
SOCIAL SECURITY ADMINISTRATION	22,784	-	-	-	-	-	-	22,784	-
DEPT OF HOUSING & URBAN DEV	23,370	-	-	-	-	-	2,146	21,224	-
DEPARTMENT OF THE INTERIOR, TOTAL	362,706	87,527	847	16,853	166,416	7,720	75,835	6,227	1,281
BUREAU OF LAND MANAGEMENT	1,323	1,148	-	-	100	-	-	75	-
BUREAU OF MINES	79,800	-	-	7,400	9,300	4,500	58,600	-	-
GEOLOGICAL SURVEY	152,685	-	-	7,260	135,259	2,609	7,557	-	-
NATIONAL PARK SERVICE	8,985	4,995	-	-	1,405	5	-	2,574	6
OFFICE OF THE SECRETARY	4,075	-	-	-	3,008	355	-	712	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,300	876	447	808	1,891	91	2,946	241	-
OFFICE OF WATER RSCH & TECHNOLOGY	19,300	3,860	400	1,385	5,185	160	4,835	2,450	1,025
US FISH & WILDLIFE SERVICE	76,238	76,238	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	13,000	410	-	-	10,268	-	1,897	175	250
DEPARTMENT OF JUSTICE, TOTAL	31,300	1,100	2,525	-	100	200	1,400	25,975	-
DRUG ENFORCEMENT ADMIN	1,400	-	200	-	-	200	1,000	-	-
FEDERAL PRISON SYSTEM	650	-	-	-	-	-	-	650	-
IMMIGRATION & NATURALIZATION SVC	400	-	-	-	-	-	400	-	-
OFFICE OF THE ATTORNEY GENERAL	1,250	-	-	-	-	-	-	1,250	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	27,600	1,100	2,325	-	100	-	-	24,075	-
DEPARTMENT OF LABOR, TOTAL	45,182	-	469	-	-	698	-	44,015	-
BUREAU OF LABOR STATISTICS	925	-	-	-	-	-	-	925	-
EMPLOYMENT STANDARDS ADMIN	6,348	-	-	-	-	-	-	6,348	-
EMPLOYMENT & TRAINING ADMIN	26,574	-	469	-	-	698	-	25,407	-
LABOR-MANAGEMENT SERVICES ADMIN	3,189	-	-	-	-	-	-	3,189	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	-	-	-	-	-	-	6,546	-
OFFICE OF THE SECRETARY	1,600	-	-	-	-	-	-	1,600	-
DEPARTMENT OF STATE, TOTAL	2,366	-	-	-	617	-	-	1,599	150
DEPARTMENTAL FUNDS	2,366	-	-	-	617	-	-	1,599	150

CONTINUED ON NEXT PAGE

TABLE C-15. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	70,352	3,836	-	1,200	1,040	12,074	39,131	10,871	2,200
COAST GUARD	10,100	-	-	1,200	1,000	-	5,600	100	2,200
FEDERAL AVIATION ADMINISTRATION	7,700	-	-	-	-	-	7,700	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,100	300	-	-	-	100	4,150	550	-
FEDERAL RAILROAD ADMINISTRATION	7,900	-	-	-	-	31	7,858	11	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	33,332	3,536	-	-	-	10,943	9,463	9,390	-
OFFICE OF THE SECRETARY	620	-	-	-	-	-	320	300	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,500	-	-	-	40	1,000	2,940	520	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	-	-	1,100	-	-
DEPARTMENT OF THE TREASURY, TOTAL	4,872	-	-	979	-	705	-	2,375	813
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	-	-	50	-	-	-	-	296
BUREAU OF ENGRAVING AND PRINTING ...	829	-	-	829	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,597	-	-	-	-	705	-	2,375	517
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,717	-	-	-	-	-	-	1,717	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
CIVIL AERONAUTICS BOARD	653	-	-	-	-	-	-	653	-
COMMUNITY SERVICES ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,600	1,421	-	-	-	-	179	-	-
ENVIRONMENTAL PROTECTION AGENCY	258,500	87,906	-	72,316	4,419	1,038	91,082	1,739	-
FEDERAL COMMUNICATIONS COMMISSION	3,930	-	-	-	-	118	1,650	2,162	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,330	731	209	2,906	-	478	2,807	1,256	943
FEDERAL HOME LOAN BANK BOARD	1,211	-	-	-	-	-	-	1,211	-
FEDERAL TRADE COMMISSION	1,343	-	-	-	-	-	-	1,343	-
GENERAL SERVICES ADMINISTRATION	117	-	-	-	-	25	82	-	10
INTERNAT'L COMMUNICATION AGENCY	179	-	-	-	-	-	179	-	-
INTERNAT'L DEV COOPERATION AGENCY	74,632	60,184	-	-	75	-	3,660	9,583	1,130
AGENCY FOR INTERNAT'L DEVELOPMENT ..	31,265	16,817	-	-	75	-	3,660	9,583	1,130
INST FOR SCIEN & TECH COOPERATION ..	43,367	43,367	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	161	-	-	-	-	99	-	62	-
LIBRARY OF CONGRESS	700	-	-	-	-	-	-	-	700
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,614,674	57,343	1,614	304,219	430,204	2,186	815,858	200	3,050
NATIONAL SCIENCE FOUNDATION	895,331	153,999	13,688	229,253	235,818	48,766	106,726	56,969	50,112
NUCLEAR REGULATORY COMMISSION	196,325	-	-	-	-	-	196,325	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,844	-	1,544	-	-	-	-	300	-
SMITHSONIAN INSTITUTION	41,025	16,166	-	7,713	3,328	-	-	13,818	-
TENNESSEE VALLEY AUTHORITY	22,106	2,891	-	5,617	-	-	13,598	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,730	-	-	218	520	313	489	1,190	-
US INTERNAT'L TRADE COMMISSION	2,679	-	-	-	-	-	-	2,679	-
VETERANS ADMINISTRATION	112,454	96,809	11,730	-	-	-	3,915	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	12,908,292	4,431,975	248,337	2,262,506	1,328,531	353,345	3,245,798	601,729	436,071
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	742,330	515,794	118	58,828	16,026	4,232	52,177	95,155	-
AGRICULTURAL MARKETING SERVICE	614	614	-	-	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	44,600	-	-	-	-	1,177	-	43,423	-
FOREST SERVICE	118,000	74,990	118	4,511	12,473	1,735	14,121	10,052	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	8,210	8,210	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	570,906	431,980	-	54,317	3,553	1,320	38,056	41,680	-
AGRICULTURAL RESEARCH	376,278	290,422	-	45,836	2,492	1,320	32,241	3,967	-
COOPERATIVE RESEARCH	194,628	141,558	-	8,481	1,061	-	5,815	37,713	-
DEPARTMENT OF COMMERCE, TOTAL	269,653	68,757	202	41,756	96,047	8,440	47,071	7,353	27
BUREAU OF THE CENSUS	1,679	-	202	-	-	1,169	-	281	27
ECONOMIC DEVELOPMENT ADMIN	2,500	-	-	-	-	-	-	2,500	-
MARITIME ADMINISTRATION	10,415	-	-	-	-	300	9,615	500	-
NATIONAL BUREAU OF STANDARDS	62,600	-	-	34,741	470	5,367	20,837	1,185	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	183,276	68,757	-	7,015	95,577	1,604	7,687	2,636	-
NAT'L TELECOMM & INFO ADMIN	9,183	-	-	-	-	-	8,932	251	-
DEPARTMENT OF DEFENSE, TOTAL	2,960,279	221,072	89,700	520,606	218,769	229,250	1,466,090	10,293	204,499
DEPARTMENT OF THE ARMY	713,195	120,969	34,322	127,970	35,745	49,986	336,002	1,181	7,020
DEPARTMENT OF THE NAVY	599,100	33,107	18,873	151,300	83,118	65,551	244,762	2,389	-
DEPARTMENT OF THE AIR FORCE	897,100	55,226	30,553	101,281	47,368	62,109	599,781	-	782
DEFENSE AGENCIES	750,884	11,770	5,952	140,055	52,538	51,604	285,545	6,723	196,697
DEPARTMENT OF EDUCATION	100,213	17,802	2,571	-	-	-	6,485	63,995	9,360
DEPARTMENT OF ENERGY	1,424,970	155,694	-	872,497	121,636	13,500	236,795	2,920	21,928
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,431,097	2,857,028	122,856	79,270	-	8,948	47,386	196,462	119,147
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	260,405	141,016	77,231	1,183	-	1,013	245	35,988	3,729
CENTER FOR DISEASE CONTROL	97,169	97,169	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	66,212	66,212	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	52,357	-	-	-	-	-	-	52,357	-
HEALTH SERVICES ADMINISTRATION	7,122	6,822	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	2,856,012	2,545,809	45,625	78,087	-	7,935	47,141	16,297	115,118
OFFICE OF ASST'T SECY FOR HEALTH	32,409	-	-	-	-	-	-	32,409	-
OFF OF HUMAN DEVELOPMENT SVCS	12,024	-	-	-	-	-	-	12,024	-
OFFICE OF THE SECRETARY	24,000	-	-	-	-	-	-	24,000	-
SOCIAL SECURITY ADMINISTRATION	23,387	-	-	-	-	-	-	23,387	-
DEPT OF HOUSING & URBAN DEV	25,776	-	-	-	-	-	4,045	21,731	-
DEPARTMENT OF THE INTERIOR, TOTAL	366,016	95,645	400	17,170	160,420	7,753	75,988	7,085	1,555
BUREAU OF LAND MANAGEMENT	1,308	1,136	-	-	98	-	-	74	-
BUREAU OF MINES	77,400	-	-	7,800	9,000	4,500	56,100	-	-
GEOLOGICAL SURVEY	151,478	-	-	7,610	132,918	2,731	8,219	-	-
NATIONAL PARK SERVICE	11,295	6,203	-	-	1,426	5	-	3,654	7
OFFICE OF THE SECRETARY	2,428	-	-	-	1,357	357	-	714	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,260	1,442	-	275	2,384	-	3,159	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	20,600	4,060	400	1,485	5,385	160	5,035	2,450	1,025
US FISH & WILDLIFE SERVICE	82,347	82,347	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	12,500	457	-	-	7,852	-	3,475	193	523
DEPARTMENT OF JUSTICE, TOTAL	29,941	1,000	3,275	-	600	100	1,100	23,866	-
DRUG ENFORCEMENT ADMIN	1,100	-	100	-	-	100	900	-	-
FEDERAL PRISON SYSTEM	798	-	-	-	-	-	-	798	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	-	200	-	-
OFFICE OF THE ATTORNEY GENERAL	1,643	-	-	-	-	-	-	1,643	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	26,200	1,000	3,175	-	600	-	-	21,425	-
DEPARTMENT OF LABOR, TOTAL	51,682	-	418	-	-	1,000	-	50,264	-
BUREAU OF LABOR STATISTICS	1,117	-	-	-	-	-	-	1,117	-
EMPLOYMENT STANDARDS ADMIN	6,483	-	-	-	-	-	-	6,483	-
EMPLOYMENT & TRAINING ADMIN	28,725	-	418	-	-	1,000	-	27,307	-
LABOR-MANAGEMENT SERVICES ADMIN	3,257	-	-	-	-	-	-	3,257	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	10,300	-	-	-	-	-	-	10,300	-
OFFICE OF THE SECRETARY	1,800	-	-	-	-	-	-	1,800	-
DEPARTMENT OF STATE, TOTAL	2,269	-	-	-	520	-	-	1,599	150
DEPARTMENTAL FUNDS	2,269	-	-	-	520	-	-	1,599	150

CONTINUED ON NEXT PAGE

TABLE C-16. FEDERAL OBLIGATIONS FOR RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	84,100	4,115	-	1,500	500	12,898	44,414	12,873	7,300
COAST GUARD	15,800	-	-	1,500	500	-	6,000	100	7,700
FEDERAL AVIATION ADMINISTRATION	12,200	-	-	-	-	-	12,200	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,800	200	-	-	-	100	4,100	300	100
FEDERAL RAILROAD ADMINISTRATION	7,800	-	-	-	-	29	7,761	10	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	36,900	3,915	-	-	-	12,029	10,638	10,318	-
OFFICE OF THE SECRETARY	600	-	-	-	-	-	325	275	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,800	-	-	-	-	740	2,190	1,870	-
URBAN MASS TRANSPORTATION ADMIN	1,200	-	-	-	-	-	1,200	-	-
DEPARTMENT OF THE TREASURY, TOTAL	5,156	-	-	1,156	-	490	-	2,600	910
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	160	-	-	50	-	-	-	-	110
BUREAU OF ENGRAVING AND PRINTING ...	1,006	-	-	1,006	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,890	-	-	-	-	490	-	2,600	800
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,836	-	-	-	-	-	-	1,836	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
CIVIL AERONAUTICS BOARD	572	-	-	-	-	-	-	572	-
COMMUNITY SERVICES ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3,100	1,984	-	-	-	-	1,116	-	-
ENVIRONMENTAL PROTECTION AGENCY	285,200	96,594	-	79,164	7,717	1,738	97,241	2,746	-
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	12,000	-	-	-	-	-	12,000	-	-
FEDERAL COMMUNICATIONS COMMISSION	3,318	-	-	-	-	100	1,393	1,825	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	11,739	803	306	3,291	623	-	3,505	1,835	1,376
FEDERAL HOME LOAN BANK BOARD	1,342	-	-	-	-	-	-	1,342	-
FEDERAL TRADE COMMISSION	1,514	-	-	-	-	-	-	1,514	-
GENERAL SERVICES ADMINISTRATION	292	-	-	-	-	75	217	-	-
INTERNAT'L COMMUNICATION AGENCY	60	-	-	-	-	-	60	-	-
INTERNAT'L DEV COOPERATION AGENCY	90,037	67,731	-	-	-	-	1,610	12,144	8,552
AGENCY FOR INTERNAT'L DEVELOPMENT ..	46,857	24,551	-	-	-	-	1,610	12,144	8,552
INST FOR SCIEN & TECH COOPERATION ..	43,180	43,180	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	240	-	-	-	-	150	-	90	-
LIBRARY OF CONGRESS	500	-	-	-	-	-	-	-	500
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,600,864	44,189	1,743	311,872	445,049	7,747	786,864	215	3,185
NATIONAL SCIENCE FOUNDATION	983,770	163,252	13,909	260,191	256,577	56,579	118,534	57,646	57,082
NUCLEAR REGULATORY COMMISSION	217,928	-	-	-	-	-	217,928	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,694	-	1,794	-	-	-	-	900	-
SMITHSONIAN INSTITUTION	45,221	17,819	-	8,334	3,427	-	-	15,641	-
TENNESSEE VALLEY AUTHORITY	28,268	2,412	-	6,721	-	-	19,135	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	3,273	-	-	150	620	345	590	1,568	-
US INTERNAT'L TRADE COMMISSION	4,059	-	-	-	-	-	-	4,059	-
VETERANS ADMINISTRATION	115,383	100,284	11,045	-	-	-	4,054	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-17. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	202,290	56,860	88,150	57,280	3,850,471	1,715,359	216,481	401,520	1,369,491	147,633
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	102	-	102	-	436,301	64,535	74,545	289,461	7,760	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	445	-	-	445	-	-
FOREST SERVICE	102	-	102	-	65,482	23,088	42,394	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	370,374	41,447	32,151	289,016	7,760	-
AGRICULTURAL RESEARCH	-	-	-	-	247,111	25,418	32,151	188,912	630	-
COOPERATIVE RESEARCH	-	-	-	-	123,263	16,029	-	100,134	7,130	-
DEPARTMENT OF COMMERCE, TOTAL	232	-	232	-	53,899	-	-	53,899	-	-
BUREAU OF THE CENSUS	232	-	232	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	53,899	-	-	53,899	-	-
DEPARTMENT OF DEFENSE, TOTAL	65,681	1,294	51,444	12,943	155,019	61,294	5,611	175	84,125	3,814
DEPARTMENT OF THE ARMY	22,905	714	22,191	-	78,045	11,110	1,372	175	65,338	50
DEPARTMENT OF THE NAVY	11,139	-	3,496	7,643	23,590	10,209	2,054	-	11,327	-
DEPARTMENT OF THE AIR FORCE	25,227	-	19,927	5,300	43,578	34,093	2,185	-	6,600	700
DEFENSE AGENCIES	6,410	580	5,830	-	9,806	5,882	-	-	860	3,064
DEPARTMENT OF EDUCATION	1,916	-	-	1,916	14,846	-	-	-	13,135	1,711
DEPARTMENT OF ENERGY	-	-	-	-	138,087	87,954	-	3,234	7,310	39,589
DEPT OF HLTH & HUMAN SERVICES, TOTAL	104,699	35,427	28,157	41,115	2,517,063	1,305,557	-	-	1,124,142	87,364
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	64,167	35,427	28,157	583	114,788	75,017	-	-	18,346	21,425
CENTER FOR DISEASE CONTROL	-	-	-	-	76,271	-	-	-	76,271	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	60,979	53,893	-	-	7,086	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	9,901	-	-	-	9,901	-
NATIONAL INSTITUTES OF HEALTH	40,532	-	-	40,532	2,255,124	1,176,647	-	-	1,012,538	65,939
DEPARTMENT OF THE INTERIOR, TOTAL	414	414	-	-	80,260	64,919	14,081	1,070	110	80
BUREAU OF LAND MANAGEMENT	-	-	-	-	889	130	100	659	-	-
NATIONAL PARK SERVICE	14	14	-	-	4,840	3,503	1,337	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	656	-	245	411	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	400	400	-	-	3,860	3,670	-	-	110	80
US FISH & WILDLIFE SERVICE	-	-	-	-	69,641	57,242	12,399	-	-	-
WATER & POWER RESOURCES SVC	-	-	-	-	374	374	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,250	-	1,450	800	1,000	-	-	-	1,000	-
DRUG ENFORCEMENT ADMIN	100	-	-	100	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,150	-	1,450	700	1,000	-	-	-	1,000	-
DEPARTMENT OF LABOR, TOTAL	229	-	229	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	229	-	229	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	44	-	35	-	-	9
DEPARTMENTAL FUNDS	-	-	-	-	44	-	35	-	-	9
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	3,183	3,183	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,183	3,183	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,590	-	-	-	-	1,590
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	87,051	-	60,772	17,900	8,379	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	224	-	224	-	391	344	-	-	47	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	56,409	5,816	1,667	35,777	8,958	4,191
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	56,409	5,816	1,667	35,777	8,958	4,191
NATIONAL AERONAUTICS & SPACE ADMIN	1,634	86	1,082	466	53,816	17,230	2,592	4	31,209	2,781
NATIONAL SCIENCE FOUNDATION	12,453	8,592	3,821	40	137,927	84,093	47,333	-	-	6,501
OFFICE OF PERSONNEL MANAGEMENT	1,354	-	1,354	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	14,810	4,965	9,845	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,498	2,498	-	-	-	-
VETERANS ADMINISTRATION	11,102	11,047	55	-	96,277	12,971	-	-	83,306	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-18. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	221,710	59,907	96,303	45,500	4,186,548	1,845,014	223,902	447,511	1,515,368	154,753
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	106	-	106	-	480,479	67,739	70,022	334,602	8,116	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	619	-	-	619	-	-
FOREST SERVICE	106	-	106	-	68,170	24,277	43,893	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	411,690	43,462	26,129	333,983	8,116	-
AGRICULTURAL RESEARCH	-	-	-	-	278,830	26,277	26,129	226,004	420	-
COOPERATIVE RESEARCH	-	-	-	-	132,860	17,185	-	107,979	7,696	-
DEPARTMENT OF COMMERCE, TOTAL	198	-	198	-	56,239	-	-	56,239	-	-
BUREAU OF THE CENSUS	198	-	198	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	56,239	-	-	56,239	-	-
DEPARTMENT OF DEFENSE, TOTAL	72,167	241	55,472	16,454	176,270	54,965	6,292	225	109,998	4,790
DEPARTMENT OF THE ARMY	28,016	150	27,866	-	93,497	5,177	1,717	225	86,328	50
DEPARTMENT OF THE NAVY	13,923	-	4,469	9,454	27,000	11,142	2,198	-	13,660	-
DEPARTMENT OF THE AIR FORCE	24,299	-	17,299	7,000	44,693	32,516	2,377	-	8,900	900
DEFENSE AGENCIES	5,929	91	5,838	-	11,080	6,130	-	-	1,110	3,840
DEPARTMENT OF EDUCATION	2,454	-	-	2,454	16,893	-	-	-	14,671	2,222
DEPARTMENT OF ENERGY	-	-	-	-	149,335	96,140	-	3,498	6,874	42,823
DEPT OF HLTH & HUMAN SERVICES, TOTAL	114,159	38,644	30,790	44,725	2,737,419	1,415,614	-	-	1,231,581	90,224
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	70,126	38,644	30,790	692	127,049	80,227	-	-	20,846	25,976
CENTER FOR DISEASE CONTROL	-	-	-	-	94,480	-	-	-	94,480	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	64,159	56,704	-	-	7,455	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	7,230	-	-	-	7,230	-
NATIONAL INSTITUTES OF HEALTH	44,033	-	-	44,033	2,444,501	1,278,683	-	-	1,101,570	64,248
DEPARTMENT OF THE INTERIOR, TOTAL	847	-	400	447	87,527	69,159	16,668	1,322	110	268
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,148	110	200	838	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,995	3,460	1,535	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	447	-	-	447	876	96	108	484	-	188
OFFICE OF WATER RSCH & TECHNOLOGY	400	-	400	-	3,860	3,670	-	-	110	80
US FISH & WILDLIFE SERVICE	-	-	-	-	76,238	61,413	14,825	-	-	-
WATER & POWER RESOURCES SVC	-	-	-	-	410	410	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,525	-	1,675	850	1,100	-	-	-	1,100	-
DRUG ENFORCEMENT ADMIN	200	-	-	200	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,325	-	1,675	650	1,100	-	-	-	1,100	-
DEPARTMENT OF LABOR, TOTAL	469	-	469	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	469	-	469	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	3,836	3,536	-	-	-	300
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	300	-	-	-	-	300
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,536	3,536	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,421	-	-	-	-	1,421
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	87,906	-	60,361	19,074	8,471	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	209	-	209	-	731	574	105	-	52	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	60,184	8,180	1,000	32,546	14,528	3,930
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	16,817	830	-	10,546	1,511	3,930
INST FOR SCIEN & TECH COOPERATION	-	-	-	-	43,367	7,350	1,000	22,000	13,017	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,614	90	1,004	520	57,343	18,262	2,032	5	33,944	3,100
NATIONAL SCIENCE FOUNDATION	13,688	9,259	4,379	50	153,999	91,424	56,900	-	-	5,675
OFFICE OF PERSONNEL MANAGEMENT	1,544	-	1,544	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	16,166	5,644	10,522	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,891	2,891	-	-	-	-
VETERANS ADMINISTRATION	11,730	11,673	57	-	96,809	10,886	-	-	85,923	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-19. FEDERAL OBLIGATIONS FOR RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1991 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	248,337	61,286	117,813	69,238	4,431,975	1,940,555	242,015	493,731	1,587,730	167,944
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	118	-	118	-	515,794	74,894	74,852	357,942	8,106	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	614	-	-	614	-	-
FOREST SERVICE	118	-	118	-	74,990	27,162	47,828	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	-	-	-	-	8,210	-	-	8,210	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	431,980	47,732	27,024	349,118	8,106	-
AGRICULTURAL RESEARCH	-	-	-	-	290,422	27,608	27,024	235,360	430	-
COOPERATIVE RESEARCH	-	-	-	-	141,558	20,124	-	113,758	7,676	-
DEPARTMENT OF COMMERCE, TOTAL	202	-	202	-	68,757	-	-	68,757	-	-
BUREAU OF THE CENSUS	202	-	202	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	68,757	-	-	68,757	-	-
DEPARTMENT OF DEFENSE, TOTAL	89,700	160	76,271	13,269	221,072	58,726	10,109	250	132,118	19,869
DEPARTMENT OF THE ARMY	34,322	160	34,162	-	120,969	6,454	1,985	250	112,230	50
DEPARTMENT OF THE NAVY	18,873	-	5,604	13,269	33,107	13,785	3,834	-	15,488	-
DEPARTMENT OF THE AIR FORCE	30,553	-	30,553	-	55,226	31,036	4,290	-	2,800	17,100
DEFENSE AGENCIES	5,952	-	5,952	-	11,770	7,451	-	-	1,600	2,719
DEPARTMENT OF EDUCATION	2,571	-	-	2,571	17,802	-	-	-	15,436	2,366
DEPARTMENT OF ENERGY	-	-	-	-	155,694	102,067	-	4,420	6,913	42,294
DEPT OF HLTH & HUMAN SERVICES, TOTAL	122,856	40,338	31,320	51,198	2,857,028	1,484,058	-	-	1,280,496	92,474
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	77,231	40,338	31,320	5,573	141,016	91,033	-	-	23,740	26,243
CENTER FOR DISEASE CONTROL	-	-	-	-	97,169	-	-	-	97,169	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	66,212	58,391	-	-	7,821	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	6,822	-	-	-	6,822	-
NATIONAL INSTITUTES OF HEALTH	45,625	-	-	45,625	2,545,809	1,334,634	-	-	1,144,944	66,231
DEPARTMENT OF THE INTERIOR, TOTAL	400	-	400	-	95,645	75,345	18,055	1,988	110	147
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,136	109	199	828	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,203	4,590	1,613	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	1,442	215	-	1,160	-	67
OFFICE OF WATER RSCH & TECHNOLOGY	400	-	400	-	4,060	3,870	-	-	110	80
US FISH & WILDLIFE SERVICE	-	-	-	-	82,347	66,104	16,243	-	-	-
WATER & POWER RESOURCES SVC	-	-	-	-	457	457	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	3,275	-	1,675	1,600	1,000	-	-	-	1,000	-
DRUG ENFORCEMENT ADMIN	100	-	-	100	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,175	-	1,675	1,500	1,000	-	-	-	1,000	-
DEPARTMENT OF LABOR, TOTAL	418	-	418	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	418	-	418	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	4,115	3,915	-	-	-	200
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	200	-	-	-	-	200
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,915	3,915	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,984	-	-	-	-	1,984
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	96,594	-	64,242	20,825	11,527	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	306	-	306	-	803	727	-	-	76	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	67,731	6,997	2,160	39,544	19,030	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	24,551	847	960	17,064	5,680	-
INST FOR SCIEN & TECH COOPERATION	-	-	-	-	43,180	6,150	1,200	22,480	13,350	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,743	100	1,093	550	44,189	15,696	1,607	5	23,681	3,200
NATIONAL SCIENCE FOUNDATION	13,909	9,702	4,157	50	163,252	98,056	59,786	-	-	5,410
OFFICE OF PERSONNEL MANAGEMENT	1,794	-	1,794	-	-	-	-	-	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	17,819	6,615	11,204	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	2,412	2,412	-	-	-	-
VETERANS ADMINISTRATION	11,045	10,986	59	-	100,284	11,047	-	-	89,237	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,821,540	283,291	453,135	1,044,279	40,835	1,103,382	347,799	358,324	222,914	174,345
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	50,645	-	47,204	3,441	-	13,644	5,057	8,587	-	-
FOREST SERVICE	3,861	-	2,962	899	-	10,733	2,466	8,267	-	-
SCIENCE & EDUCATION ADMINISTRATION	46,784	-	44,242	2,542	-	2,911	2,591	320	-	-
AGRICULTURAL RESEARCH	38,906	-	36,364	2,542	-	1,925	1,605	320	-	-
COOPERATIVE RESEARCH	7,878	-	7,878	-	-	986	986	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	35,519	634	8,944	25,889	52	79,617	36,017	1,797	41,720	83
NATIONAL BUREAU OF STANDARDS	29,790	634	7,662	21,494	-	335	175	160	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,677	-	1,282	4,395	-	79,252	35,842	1,637	41,720	53
OFFICE OF THE SECRETARY	52	-	-	-	52	30	-	-	-	30
DEPARTMENT OF DEFENSE, TOTAL	385,389	11,651	97,615	266,066	10,057	152,215	56,318	21,614	56,150	18,133
DEPARTMENT OF THE ARMY	90,243	-	51,015	38,917	311	23,994	10,998	6,356	239	6,401
DEPARTMENT OF THE NAVY	106,183	7,529	16,224	78,071	4,359	69,949	6,229	3,794	51,901	8,025
DEPARTMENT OF THE AIR FORCE	120,081	4,122	29,580	85,769	610	18,870	14,811	2,729	-	1,330
DEFENSE AGENCIES	68,882	-	796	63,309	4,777	39,402	24,280	8,735	4,010	2,377
DEPARTMENT OF ENERGY	663,352	-	72,340	574,661	16,351	102,563	15,503	31,531	13,094	42,435
DEPT OF HLTH & HUMAN SERVICES, TOTAL	69,797	-	62,760	7,037	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	624	-	624	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	69,173	-	62,136	7,037	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	15,684	-	11,804	1,877	2,003	158,529	9,548	135,470	8,592	4,919
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	160	-	160	-	-
BUREAU OF MINES	7,000	-	5,300	-	1,700	10,600	-	7,900	-	2,700
GEOLOGICAL SURVEY	6,592	-	4,930	1,662	-	130,404	-	122,276	8,128	-
NATIONAL PARK SERVICE	-	-	-	-	-	1,477	137	534	345	461
OFFICE OF THE SECRETARY	-	-	-	-	-	468	-	-	-	468
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	707	-	404	-	303	1,330	130	1,200	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,385	-	1,170	215	-	5,185	450	3,400	45	1,290
WATER & POWER RESOURCES SVC	-	-	-	-	-	8,905	8,831	-	74	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	232	-	-	150	82
DEPARTMENTAL FUNDS	-	-	-	-	-	232	-	-	150	82
DEPARTMENT OF TRANSPORTATION, TOTAL	1,000	-	1,000	-	-	1,400	400	-	1,000	-
COAST GUARD	1,000	-	1,000	-	-	1,000	-	-	1,000	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	400	400	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	673	-	170	123	380	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	80	-	40	40	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	593	-	130	83	380	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	73,230	-	72,455	775	-	3,376	1,632	1,586	158	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,529	-	1,395	2,134	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	14	-	14	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	306	-	-	-	306
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	306	-	-	-	306
NATIONAL AERONAUTICS & SPACE ADMIN	304,789	213,272	6,415	73,285	11,817	368,137	144,010	88,988	27,400	107,739
NATIONAL SCIENCE FOUNDATION	205,781	51,064	65,601	88,941	175	220,206	79,208	66,619	73,731	648
SMITHSONIAN INSTITUTION	6,670	6,670	-	-	-	2,898	106	1,938	854	-
TENNESSEE VALLEY AUTHORITY	5,390	-	5,390	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	78	-	28	50	-	259	-	194	65	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-21. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,980,374	290,536	491,891	1,140,876	57,071	1,249,932	422,640	382,563	248,279	196,450
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	56,303	-	52,668	3,635	-	14,743	5,623	9,120	-	-
FOREST SERVICE	4,031	-	3,101	930	-	11,145	2,578	8,567	-	-
SCIENCE & EDUCATION ADMINISTRATION	52,272	-	49,567	2,705	-	3,598	3,045	553	-	-
AGRICULTURAL RESEARCH	43,768	-	41,063	2,705	-	2,534	1,981	553	-	-
COOPERATIVE RESEARCH	8,504	-	8,504	-	-	1,064	1,064	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	38,623	626	9,606	28,158	233	94,109	38,724	2,187	53,098	100
NATIONAL BUREAU OF STANDARDS	32,489	626	8,266	23,597	-	470	291	179	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,901	-	1,340	4,561	-	93,424	38,318	2,008	53,098	-
OFFICE OF THE SECRETARY	233	-	-	-	233	215	115	-	-	100
DEPARTMENT OF DEFENSE, TOTAL	422,365	14,854	109,107	282,576	15,828	181,906	78,522	27,343	58,676	17,365
DEPARTMENT OF THE ARMY	95,968	18	56,287	39,306	357	27,083	12,894	7,466	342	6,381
DEPARTMENT OF THE NAVY	124,685	10,320	20,152	89,112	5,101	73,908	6,817	4,586	55,030	7,475
DEPARTMENT OF THE AIR FORCE	101,812	4,516	32,103	65,193	-	38,648	34,359	3,339	-	950
DEFENSE AGENCIES	99,900	-	565	88,965	10,370	42,267	24,452	11,952	3,304	2,559
DEPARTMENT OF ENERGY	745,755	-	79,767	639,982	26,006	116,637	16,564	30,871	13,772	55,430
DEPT OF HLTH & HUMAN SERVICES, TOTAL	76,054	-	68,373	7,681	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,037	-	1,037	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	75,017	-	67,336	7,681	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	16,853	-	12,815	2,050	1,988	166,416	10,907	136,153	11,811	7,545
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	100	-	100	-	-
BUREAU OF MINES	7,400	-	5,600	-	1,800	9,300	-	6,800	-	2,500
GEOLOGICAL SURVEY	7,260	-	5,450	1,810	-	135,259	-	123,906	11,353	-
NATIONAL PARK SERVICE	-	-	-	-	-	1,405	194	461	310	440
OFFICE OF THE SECRETARY	-	-	-	-	-	3,008	-	-	-	3,008
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	808	-	620	-	188	1,891	98	1,386	-	407
OFFICE OF WATER RSCH & TECHNOLOGY	1,385	-	1,145	240	-	5,185	450	3,500	45	1,190
WATER & POWER RESOURCES SVC	-	-	-	-	-	10,268	10,165	-	103	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	100	-	-	-	100
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	100	-	-	-	100
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	617	-	100	132	385
DEPARTMENTAL FUNDS	-	-	-	-	-	617	-	100	132	385
DEPARTMENT OF TRANSPORTATION, TOTAL	1,200	-	1,200	-	-	1,040	40	-	1,000	-
COAST GUARD	1,200	-	1,200	-	-	1,000	-	-	1,000	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	40	40	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	979	-	207	241	531	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	829	-	182	116	531	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	72,316	-	71,441	875	-	4,419	1,677	2,590	152	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,906	-	1,151	1,755	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	75	-	-	-	75
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	75	-	-	-	75
NATIONAL AERONAUTICS & SPACE ADMIN	304,219	210,505	6,831	74,798	12,085	430,204	188,205	96,572	30,895	114,532
NATIONAL SCIENCE FOUNDATION	229,253	56,838	73,065	98,950	400	235,818	82,211	74,910	77,779	918
SMITHSONIAN INSTITUTION	7,713	7,713	-	-	-	3,328	167	2,257	904	-
TENNESSEE VALLEY AUTHORITY	5,617	-	5,617	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	218	-	43	175	-	520	-	460	60	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-22. FEDERAL OBLIGATIONS FOR RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	2,262,566	308,413	533,907	1,344,788	75,398	1,328,531	426,227	421,384	262,258	218,662
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	58,828	-	54,960	3,868	-	16,026	5,880	10,146	-	-
FOREST SERVICE	4,511	-	3,470	1,041	-	12,473	2,884	9,589	-	-
SCIENCE & EDUCATION ADMINISTRATION	54,317	-	51,490	2,827	-	3,553	2,996	557	-	-
AGRICULTURAL RESEARCH	45,836	-	43,009	2,827	-	2,492	1,935	557	-	-
COOPERATIVE RESEARCH	8,481	-	8,481	-	-	1,061	1,061	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	41,756	778	10,134	30,844	-	96,047	46,085	2,232	47,730	-
NATIONAL BUREAU OF STANDARDS	34,741	778	8,684	25,279	-	470	291	179	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	7,015	-	1,450	5,565	-	95,577	45,794	2,053	47,730	-
DEPARTMENT OF DEFENSE, TOTAL	520,606	16,130	119,142	356,463	28,871	218,769	91,544	38,906	65,631	22,688
DEPARTMENT OF THE ARMY	127,970	-	68,815	58,838	317	35,745	16,585	9,986	793	8,381
DEPARTMENT OF THE NAVY	151,300	10,922	25,363	108,530	6,485	83,118	7,980	5,663	60,153	9,322
DEPARTMENT OF THE AIR FORCE	101,281	5,208	24,545	60,573	10,955	47,368	38,392	7,176	-	1,800
DEFENSE AGENCIES	140,055	-	419	128,522	11,114	52,538	28,587	16,081	4,685	3,185
DEPARTMENT OF ENERGY	872,497	-	87,555	757,358	27,584	121,636	16,388	32,893	12,134	60,221
DEPT OF HLTH & HUMAN SERVICES, TOTAL	79,270	-	71,275	7,995	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,183	-	1,183	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	78,087	-	70,092	7,995	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	17,170	-	12,908	2,162	2,100	160,420	8,751	134,442	11,778	5,449
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	98	-	98	-	-
BUREAU OF MINES	7,800	-	5,700	-	2,100	9,000	-	6,600	-	2,400
GEOLOGICAL SURVEY	7,610	-	5,688	1,922	-	132,918	-	121,565	11,353	-
NATIONAL PARK SERVICE	-	-	-	-	-	1,426	192	594	262	378
OFFICE OF THE SECRETARY	-	-	-	-	-	1,357	-	-	-	1,357
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	275	-	275	-	-	2,384	375	1,885	-	124
OFFICE OF WATER RSCH & TECHNOLOGY	1,485	-	1,245	240	-	5,385	450	3,700	45	1,190
WATER & POWER RESOURCES SVC	-	-	-	-	-	7,852	7,734	-	118	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	600	-	-	-	600
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	600	-	-	-	600
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	520	-	-	132	388
DEPARTMENTAL FUNDS	-	-	-	-	-	520	-	-	132	388
DEPARTMENT OF TRANSPORTATION, TOTAL	1,500	-	1,500	-	-	500	-	-	500	-
COAST GUARD	1,500	-	1,500	-	-	500	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	1,156	-	246	266	644	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,006	-	221	141	644	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	79,164	-	77,539	1,625	-	7,717	3,504	3,597	616	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,291	-	1,175	2,116	-	623	623	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	311,872	220,472	8,408	67,193	15,799	445,049	164,512	115,812	36,482	128,243
NATIONAL SCIENCE FOUNDATION	260,191	62,649	82,344	114,798	400	256,577	88,740	80,517	86,247	1,073
SMITHSONIAN INSTITUTION	8,334	8,334	-	-	-	3,427	200	2,279	948	-
TENNESSEE VALLEY AUTHORITY	6,721	-	6,721	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	150	50	-	100	-	620	-	560	60	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-23. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBCIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,622,889	655,689	261,638	123,929	127,179	457,485	232,902	251,006	513,061
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	45,453	-	-	4,793	4,384	422	3,354	-	32,530
FOREST SERVICE	12,135	-	-	1,929	1,767	102	2,367	-	5,970
SCIENCE & EDUCATION ADMINISTRATION	33,318	-	-	2,864	2,617	320	997	-	26,530
AGRICULTURAL RESEARCH	27,917	-	-	2,864	2,617	320	997	-	21,129
COOPERATIVE RESEARCH	5,401	-	-	-	-	-	-	-	5,401
DEPARTMENT OF COMMERCE, TOTAL	32,245	29	-	1,017	9,702	7,787	3,514	2,776	7,420
MARITIME ADMINISTRATION	11,133	-	-	-	6,321	995	2,117	-	1,700
NATIONAL BUREAU OF STANDARDS	16,385	29	-	1,017	2,407	3,116	1,397	2,776	5,643
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,327	-	-	-	974	1,276	-	-	77
NAT'L TELECOMM & INFO ADMIN	2,400	-	-	-	-	2,400	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,108,789	219,844	46,428	42,929	29,434	402,810	178,661	94,475	94,208
DEPARTMENT OF THE ARMY	206,299	35,489	954	10,626	20,167	76,474	29,665	15,996	16,928
DEPARTMENT OF THE NAVY	180,119	21,195	-	10,099	2,460	50,989	33,587	29,150	32,639
DEPARTMENT OF THE AIR FORCE	496,415	132,040	25,326	20,041	1,850	185,482	95,817	26,498	9,361
DEFENSE AGENCIES	225,956	31,120	20,148	2,163	4,957	89,865	19,592	22,831	35,280
DEPARTMENT OF EDUCATION	5,897	-	-	-	-	-	-	-	5,897
DEPARTMENT OF ENERGY	204,169	-	2,025	12,173	-	6,767	1,796	86,188	95,220
DEPT OF HLTH & HUMAN SERVICES, TOTAL	42,100	-	-	-	-	-	-	-	42,100
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	209	-	-	-	-	-	-	-	209
NATIONAL INSTITUTES OF HEALTH	41,891	-	-	-	-	-	-	-	41,891
DEPT OF HOUSING & URBAN DEV	3,507	-	-	-	-	-	-	-	3,507
DEPARTMENT OF THE INTERIOR, TOTAL	69,774	-	161	5,128	13,387	1,678	6,632	40,282	2,306
BUREAU OF MINES	56,600	-	-	4,500	5,500	700	5,400	40,100	400
GEOLOGICAL SURVEY	5,818	-	-	-	4,052	190	640	-	936
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	2,105	-	161	389	450	536	502	67	-
OFFICE OF WATER RSCH & TECHNOLOGY	3,335	-	-	210	1,800	40	-	115	1,170
WATER & POWER RESOURCES SVC	1,916	-	-	29	1,585	212	90	-	-
DEPARTMENT OF JUSTICE, TOTAL	600	-	-	-	-	600	-	-	-
DRUG ENFORCEMENT ADMIN	500	-	-	-	-	500	-	-	-
IMMIGRATION & NATURALIZATION SVC	100	-	-	-	-	100	-	-	-
DEPARTMENT OF STATE, TOTAL	40	-	-	-	-	40	-	-	-
DEPARTMENTAL FUNDS	40	-	-	-	-	40	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	35,742	1,125	525	780	13,381	2,357	11,441	232	5,901
COAST GUARD	4,500	-	-	500	-	-	-	-	4,000
FEDERAL AVIATION ADMINISTRATION	7,500	1,125	525	-	4,875	975	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,100	-	-	-	3,420	-	400	232	48
FEDERAL RAILROAD ADMINISTRATION	7,462	-	-	-	2,796	632	2,181	-	1,853
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	8,580	-	-	-	-	-	8,580	-	-
OFFICE OF THE SECRETARY	300	-	-	-	300	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,200	-	-	280	890	750	280	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	1,100	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	210	-	-	-	-	-	-	-	210
ENVIRONMENTAL PROTECTION AGENCY	92,733	-	-	42,205	34,558	4,325	11,645	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,305	-	-	-	-	1,305	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,935	-	-	522	79	303	888	-	1,143
GENERAL SERVICES ADMINISTRATION	144	-	-	-	136	8	-	-	-
INTERNAT'L COMMUNICATION AGENCY	77	-	-	-	-	77	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	1,250	-	-	-	-	-	1,250	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	1,250	-	-	-	-	-	1,250	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	717,299	433,764	212,499	75	55	3,100	1,875	8,300	57,631
NATIONAL SCIENCE FOUNDATION	96,539	927	-	14,307	22,063	18,928	11,746	18,753	9,815
NUCLEAR REGULATORY COMMISSION	148,772	-	-	-	-	-	-	-	148,772
TENNESSEE VALLEY AUTHORITY	8,563	-	-	-	-	6,875	100	-	1,588
US ARMS CONTROL & DISARMAMENT AGENCY	763	-	-	-	-	103	-	-	660
VETERANS ADMINISTRATION	3,983	-	-	-	-	-	-	-	3,983

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-24. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,963,252	735,314	296,326	128,516	134,844	518,524	267,483	279,470	602,775
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	50,111	-	-	4,670	4,403	469	3,564	-	37,005
FOREST SERVICE	12,618	-	-	2,030	1,827	106	2,457	-	6,198
SCIENCE & EDUCATION ADMINISTRATION	37,493	-	-	2,640	2,576	363	1,107	-	30,807
AGRICULTURAL RESEARCH	31,663	-	-	2,640	2,576	363	1,107	-	24,977
COOPERATIVE RESEARCH	5,830	-	-	-	-	-	-	-	5,830
DEPARTMENT OF COMMERCE, TOTAL	41,155	81	-	697	9,976	13,818	3,700	5,165	7,719
MARITIME ADMINISTRATION	11,324	-	-	-	6,224	920	1,960	-	2,220
NATIONAL BUREAU OF STANDARDS	18,958	81	-	697	2,551	3,392	1,740	5,149	5,348
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,540	-	-	-	1,201	1,173	-	16	150
NAT'L TELECOMM & INFO ADMIN	8,333	-	-	-	-	8,333	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,243,805	235,652	50,573	43,900	31,327	450,547	209,881	105,034	116,891
DEPARTMENT OF THE ARMY	245,233	42,459	1,426	11,251	21,781	93,904	33,975	19,391	21,046
DEPARTMENT OF THE NAVY	208,900	25,163	-	11,831	2,500	57,026	36,788	30,411	45,181
DEPARTMENT OF THE AIR FORCE	542,303	131,565	23,470	20,045	2,430	205,939	119,589	29,167	10,098
DEFENSE AGENCIES	247,369	36,465	25,677	773	4,616	93,678	19,529	26,065	40,566
DEPARTMENT OF EDUCATION	5,889	-	-	-	-	-	-	-	5,889
DEPARTMENT OF ENERGY	221,486	-	1,363	16,189	-	8,613	3,397	94,343	97,581
DEPT OF HLTH & HUMAN SERVICES, TOTAL	45,744	-	-	-	-	-	-	-	45,744
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	235	-	-	-	-	-	-	-	235
NATIONAL INSTITUTES OF HEALTH	45,509	-	-	-	-	-	-	-	45,509
DEPT OF HOUSING & URBAN DEV	2,146	-	-	-	-	-	-	-	2,146
DEPARTMENT OF THE INTERIOR, TOTAL	75,835	-	21	5,614	16,090	1,280	6,452	43,512	2,866
BUREAU OF MINES	58,600	-	-	5,000	5,000	700	5,000	42,400	500
GEOLOGICAL SURVEY	7,557	-	-	-	5,727	285	975	-	570
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	2,946	-	21	240	625	-	437	997	626
OFFICE OF WATER RSCH & TECHNOLOGY	4,835	-	-	310	3,200	40	-	115	1,170
WATER & POWER RESOURCES SVC	1,897	-	-	64	1,538	255	40	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,400	-	-	-	-	1,400	-	-	-
DRUG ENFORCEMENT ADMIN	1,000	-	-	-	-	1,000	-	-	-
IMMIGRATION & NATURALIZATION SVC	400	-	-	-	-	400	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	39,131	1,155	539	980	13,317	3,152	12,322	1,080	6,586
COAST GUARD	5,600	-	-	500	-	500	-	-	4,600
FEDERAL AVIATION ADMINISTRATION	7,700	1,155	539	-	5,005	1,001	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,150	-	-	-	3,540	-	250	300	60
FEDERAL RAILROAD ADMINISTRATION	7,858	-	-	-	2,957	691	2,284	-	1,926
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,463	-	-	-	-	-	9,463	-	-
OFFICE OF THE SECRETARY	320	-	-	-	320	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,940	-	-	480	395	960	325	780	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	1,100	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	179	-	-	-	-	-	-	-	179
ENVIRONMENTAL PROTECTION AGENCY	91,082	-	-	40,466	34,410	4,426	11,780	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,650	-	-	-	-	1,650	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,807	-	-	519	70	276	807	-	1,135
GENERAL SERVICES ADMINISTRATION	82	-	-	-	82	-	-	-	-
INTERNAT'L COMMUNICATION AGENCY	179	-	-	-	-	179	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	3,660	-	-	-	-	-	775	-	2,885
AGENCY FOR INTERNAT'L DEVELOPMENT	3,660	-	-	-	-	-	775	-	2,885
NATIONAL AERONAUTICS & SPACE ADMIN	815,858	497,263	243,830	115	100	3,350	2,050	8,981	60,169
NATIONAL SCIENCE FOUNDATION	106,726	1,163	-	15,366	25,069	20,201	12,655	21,355	10,917
NUCLEAR REGULATORY COMMISSION	196,325	-	-	-	-	-	-	-	196,325
TENNESSEE VALLEY AUTHORITY	13,598	-	-	-	-	9,163	100	-	4,335
US ARMS CONTROL & DISARMAMENT AGENCY	489	-	-	-	-	-	-	-	489
VETERANS ADMINISTRATION	3,915	-	-	-	-	-	-	-	3,915

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-25. FEDERAL OBLIGATIONS FOR RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	3,245,798	736,963	316,993	156,777	148,753	619,658	268,273	319,047	679,334
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	52,177	-	-	4,915	4,682	496	3,880	-	38,204
FOREST SERVICE	14,121	-	-	2,271	2,045	118	2,750	-	6,937
SCIENCE & EDUCATION ADMINISTRATION	38,056	-	-	2,644	2,637	378	1,130	-	31,267
AGRICULTURAL RESEARCH	32,241	-	-	2,644	2,637	378	1,130	-	25,452
COOPERATIVE RESEARCH	5,815	-	-	-	-	-	-	-	5,815
DEPARTMENT OF COMMERCE, TOTAL	47,071	81	-	704	8,607	16,508	3,506	5,549	12,116
MARITIME ADMINISTRATION	9,615	-	-	-	4,915	850	1,750	-	2,100
NATIONAL BUREAU OF STANDARDS	20,837	81	-	704	2,576	5,126	1,756	5,196	5,398
NAT'L OCEANIC & ATMOSPHERIC ADMIN	7,687	-	-	-	1,116	1,600	-	353	4,618
NAT'L TELECOMM & INFO ADMIN	8,932	-	-	-	-	8,932	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,466,090	263,504	76,291	67,265	43,371	538,715	206,819	132,440	137,685
DEPARTMENT OF THE ARMY	336,002	53,561	1,160	22,529	25,984	135,956	44,717	22,588	29,507
DEPARTMENT OF THE NAVY	244,762	25,929	-	20,949	2,100	63,441	43,530	38,887	49,926
DEPARTMENT OF THE AIR FORCE	599,781	142,381	36,292	23,165	3,490	243,523	100,581	33,718	16,631
DEFENSE AGENCIES	285,545	41,633	38,839	622	11,797	95,795	17,991	37,247	41,621
DEPARTMENT OF EDUCATION	6,485	-	-	-	-	-	-	-	6,485
DEPARTMENT OF ENERGY	236,795	-	859	14,882	-	9,172	3,714	107,653	100,515
DEPT OF HLTH & HUMAN SERVICES, TOTAL	47,386	-	-	-	-	-	-	-	47,386
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	245	-	-	-	-	-	-	-	245
NATIONAL INSTITUTES OF HEALTH	47,141	-	-	-	-	-	-	-	47,141
DEPT OF HOUSING & URBAN DEV	4,045	-	-	-	-	-	-	-	4,045
DEPARTMENT OF THE INTERIOR, TOTAL	75,988	-	-	5,159	17,040	1,135	5,774	43,280	3,600
BUREAU OF MINES	56,100	-	-	4,500	4,500	500	4,500	41,600	500
GEOLOGICAL SURVEY	8,219	-	-	-	5,143	295	1,010	-	1,771
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	3,159	-	-	85	1,126	-	224	1,565	159
OFFICE OF WATER RSCH & TECHNOLOGY	5,035	-	-	510	3,200	40	-	115	1,170
WATER & POWER RESOURCES SVC	3,475	-	-	64	3,071	300	40	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,100	-	-	-	-	1,100	-	-	-
DRUG ENFORCEMENT ADMIN	900	-	-	-	-	900	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	200	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	44,414	1,830	854	845	16,048	3,263	13,737	350	7,487
COAST GUARD	6,000	-	-	-	-	500	-	-	5,500
FEDERAL AVIATION ADMINISTRATION	12,200	1,830	854	-	7,930	1,586	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,100	-	-	-	3,590	-	100	350	60
FEDERAL RAILROAD ADMINISTRATION	7,761	-	-	-	2,908	657	2,269	-	1,927
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	10,638	-	-	-	-	-	10,638	-	-
OFFICE OF THE SECRETARY	325	-	-	325	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,190	-	-	520	420	520	730	-	-
URBAN MASS TRANSPORTATION ADMIN	1,200	-	-	-	1,200	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	1,116	-	-	-	-	-	-	-	1,116
ENVIRONMENTAL PROTECTION AGENCY	97,241	-	-	44,572	35,858	4,648	12,163	-	-
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	12,000	-	-	-	-	-	-	-	12,000
FEDERAL COMMUNICATIONS COMMISSION	1,393	-	-	-	-	1,393	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,505	-	-	688	70	348	879	-	1,520
GENERAL SERVICES ADMINISTRATION	217	-	-	-	217	-	-	-	-
INTERNAT'L COMMUNICATION AGENCY	60	-	-	-	-	60	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	1,610	-	-	-	-	-	1,500	-	110
AGENCY FOR INTERNAT'L DEVELOPMENT	1,610	-	-	-	-	-	1,500	-	110
NATIONAL AERONAUTICS & SPACE ADMIN	786,864	470,313	238,989	115	100	3,500	2,200	5,477	66,170
NATIONAL SCIENCE FOUNDATION	118,534	1,235	-	17,632	22,760	24,428	14,001	24,298	14,180
NUCLEAR REGULATORY COMMISSION	217,928	-	-	-	-	-	-	-	217,928
TENNESSEE VALLEY AUTHORITY	19,135	-	-	-	-	14,892	100	-	4,143
US ARMS CONTROL & DISARMAMENT AGENCY	590	-	-	-	-	-	-	-	590
VETERANS ADMINISTRATION	4,054	-	-	-	-	-	-	-	4,054

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	257,301	81,134	133,299	42,868	527,873	17,343	182,546	13,916	64,475	249,593
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	4,072	4,072	-	-	81,703	-	75,138	71	5,302	1,192
ECON, STAT & COOPERATIVES SERVICE	937	937	-	-	34,563	-	33,342	-	674	547
FOREST SERVICE	1,481	1,481	-	-	8,706	-	6,103	71	2,532	-
SCIENCE & EDUCATION ADMINISTRATION	1,654	1,654	-	-	38,434	-	35,693	-	2,096	645
AGRICULTURAL RESEARCH	1,654	1,654	-	-	3,405	-	2,518	-	242	645
COOPERATIVE RESEARCH	-	-	-	-	35,029	-	33,175	-	1,854	-
DEPARTMENT OF COMMERCE, TOTAL	6,591	5,146	1,445	-	11,243	-	10,963	140	140	-
BUREAU OF THE CENSUS	1,256	1,127	129	-	308	-	168	-	140	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	8,500	-	8,500	-	-	-
MARITIME ADMINISTRATION	440	-	440	-	588	-	588	-	-	-
NATIONAL BUREAU OF STANDARDS	3,583	3,436	147	-	1,707	-	1,707	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,312	583	729	-	140	-	-	140	-	-
DEPARTMENT OF DEFENSE, TOTAL	160,423	25,736	97,696	36,991	8,374	-	100	1,940	2,333	4,001
DEPARTMENT OF THE ARMY	36,311	6,235	7,356	22,720	946	-	100	-	745	101
DEPARTMENT OF THE NAVY	40,232	6,867	28,452	4,913	1,588	-	-	-	1,588	-
DEPARTMENT OF THE AIR FORCE	45,930	10,853	32,477	2,600	-	-	-	-	-	-
DEFENSE AGENCIES	37,950	1,781	29,411	6,758	5,840	-	-	1,940	-	3,900
DEPARTMENT OF EDUCATION	-	-	-	-	61,384	-	-	-	-	61,384
DEPARTMENT OF ENERGY	9,233	5,711	3,522	-	2,906	-	-	557	-	2,349
DEPT OF HLTH & HUMAN SERVICES, TOTAL	7,607	6,758	92	757	168,740	2,860	19,002	849	33,563	112,466
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	849	-	92	757	29,631	2,860	420	419	22,991	2,941
HEALTH CARE FINANCING ADMIN	-	-	-	-	31,828	-	-	-	-	31,828
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	4,944	-	-	-	-	4,944
NATIONAL INSTITUTES OF HEALTH	6,758	6,758	-	-	14,537	-	-	-	-	14,537
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	29,894	-	1,282	430	3,157	25,025
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	14,863	-	-	-	-	14,863
OFFICE OF THE SECRETARY	-	-	-	-	24,715	-	17,300	-	7,415	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	18,328	-	-	-	-	18,328
DEPT OF HOUSING & URBAN DEV	-	-	-	-	20,263	-	14,097	-	-	6,166
DEPARTMENT OF THE INTERIOR, TOTAL	7,593	5,152	2,281	160	6,110	2,283	1,675	950	847	355
BUREAU OF LAND MANAGEMENT	-	-	-	-	72	-	-	-	72	-
BUREAU OF MINES	4,900	4,900	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	2,177	246	1,931	-	80	-	-	-	-	80
NATIONAL PARK SERVICE	6	6	-	-	2,598	2,283	12	-	303	-
OFFICE OF THE SECRETARY	315	-	315	-	630	-	630	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	35	-	35	-	145	-	145	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	160	-	-	160	2,450	-	850	950	375	275
WATER & POWER RESOURCES SVC	-	-	-	-	135	-	38	-	97	-
DEPARTMENT OF JUSTICE, TOTAL	100	-	100	-	24,896	-	400	1,299	7,535	15,662
DRUG ENFORCEMENT ADMIN	100	-	100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	498	-	-	174	35	289
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,648	-	-	-	-	1,648
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	22,750	-	400	1,125	7,500	13,725
DEPARTMENT OF LABOR, TOTAL	689	-	689	-	41,164	-	29,802	-	397	10,965
BUREAU OF LABOR STATISTICS	-	-	-	-	912	-	912	-	-	-
EMPLOYMENT STANDARDS ADMIN	-	-	-	-	5,338	-	5,338	-	-	-
EMPLOYMENT & TRAINING ADMIN	689	-	689	-	25,024	-	13,662	-	397	10,965
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,183	-	3,183	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	5,107	-	5,107	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,600	-	1,600	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	2,243	-	348	-	-	1,895
DEPARTMENTAL FUNDS	-	-	-	-	2,243	-	348	-	-	1,895

CONTINUED ON NEXT PAGE

TABLE C-26. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONOM-ICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	10,943	1,029	5,183	4,731	10,190	-	6,002	-	4,188	-
COAST GUARD	-	-	-	-	75	-	75	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	100	-	100	-	-	-
FEDERAL RAILROAD ADMINISTRATION	28	-	28	-	10	-	10	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,795	1,029	4,035	4,731	8,445	-	4,257	-	4,188	-
OFFICE OF THE SECRETARY	-	-	-	-	280	-	280	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,120	-	1,120	-	1,280	-	1,280	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	250	250	-	-	220	-	-	-	-	220
INTERNAL REVENUE SERVICE	250	250	-	-	220	-	-	-	-	220
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,696	-	848	848	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	650	-	650	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	631	-	631	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,813	-	-	-	1,813	-
ENVIRONMENTAL PROTECTION AGENCY	1,024	-	1,024	-	1,586	-	1,586	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	73	-	-	73	1,522	-	1,522	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	496	496	-	-	1,214	-	374	314	526	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	863	-	863	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,521	-	1,521	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	7,829	-	559	2,550	4,170	550
AGENCY FOR INTERNAT'L DEVELOPMENT ..	-	-	-	-	7,829	-	559	2,550	4,170	550
INTERSTATE COMMERCE COMMISSION	50	-	50	-	100	-	100	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,716	2,284	432	-	149	-	-	15	-	134
NATIONAL SCIENCE FOUNDATION	45,149	24,500	20,649	-	51,605	6,659	12,448	3,565	3,661	25,272
SMITHSONIAN INSTITUTION	-	-	-	-	12,523	5,541	-	-	-	6,982
US ARMS CONTROL & DISARMAMENT AGENCY .	292	-	136	156	1,318	-	500	818	-	-
US INTERNAT'L TRADE COMMISSION	-	-	-	-	3,417	-	3,417	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC.
TOTAL, ALL AGENCIES	282,343	89,995	145,479	46,869	560,169	14,822	192,437	16,060	69,093	264,757
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,961	3,961	-	-	91,739	21	84,643	73	5,431	1,571
ECON, STAT & COOPERATIVES SERVICE	1,112	1,112	-	-	40,988	-	39,541	-	799	648
FOREST SERVICE	1,550	1,550	-	-	8,980	-	6,276	73	2,631	-
SCIENCE & EDUCATION ADMINISTRATION	1,299	1,299	-	-	41,771	21	38,826	-	2,001	923
AGRICULTURAL RESEARCH	1,299	1,299	-	-	3,960	21	3,016	-	-	923
COOPERATIVE RESEARCH	-	-	-	-	37,811	-	35,810	-	2,001	-
DEPARTMENT OF COMMERCE, TOTAL	7,189	5,388	1,801	-	6,991	-	6,623	243	125	-
BUREAU OF THE CENSUS	1,147	1,031	116	-	276	-	151	-	125	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	2,500	-	2,500	-	-	-
MARITIME ADMINISTRATION	350	-	350	-	500	-	500	-	-	-
NATIONAL BUREAU OF STANDARDS	4,331	3,745	586	-	3,152	-	3,152	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,361	612	749	-	396	-	153	243	-	-
NAT'L TELECOMM & INFO ADMIN	-	-	-	-	167	-	167	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	176,461	30,536	107,241	38,684	8,643	-	100	1,151	2,742	4,650
DEPARTMENT OF THE ARMY	38,845	7,272	6,998	24,575	1,015	-	100	-	879	36
DEPARTMENT OF THE NAVY	45,721	8,794	30,905	6,022	1,863	-	-	-	1,863	-
DEPARTMENT OF THE AIR FORCE	55,861	11,621	43,856	384	-	-	-	-	-	-
DEFENSE AGENCIES	36,034	2,849	25,482	7,703	5,765	-	-	1,151	-	4,614
DEPARTMENT OF EDUCATION	-	-	-	-	55,011	-	-	-	-	55,011
DEPARTMENT OF ENERGY	11,764	6,695	3,605	1,464	3,331	-	-	-	-	3,331
DEPT OF HLTH & HUMAN SERVICES, TOTAL	8,548	7,727	-	821	185,686	3,305	18,654	1,046	34,870	127,811
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	914	93	-	821	32,016	3,305	474	472	24,535	3,230
HEALTH CARE FINANCING ADMIN	-	-	-	-	46,782	-	-	-	-	46,782
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	265	-	-	-	-	265
NATIONAL INSTITUTES OF HEALTH	7,634	7,634	-	-	15,762	-	-	-	-	15,762
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	28,628	-	1,380	574	3,135	23,539
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	15,449	-	-	-	-	15,449
OFFICE OF THE SECRETARY	-	-	-	-	24,000	-	16,800	-	7,200	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	22,784	-	-	-	-	22,784
DEPT OF HOUSING & URBAN DEV	-	-	-	-	21,224	-	15,704	-	-	5,520
DEPARTMENT OF THE INTERIOR, TOTAL	7,720	4,772	2,772	176	6,227	2,246	1,665	950	919	447
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	75	-
BUREAU OF MINES	4,500	4,500	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	2,609	272	2,337	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	5	-	5	-	2,574	2,246	-	-	328	-
OFFICE OF THE SECRETARY	355	-	355	-	712	-	712	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	91	-	75	16	241	-	69	-	-	172
OFFICE OF WATER RSCH & TECHNOLOGY	160	-	-	160	2,450	-	850	950	375	275
WATER & POWER RESOURCES SVC	-	-	-	-	175	-	34	-	141	-
DEPARTMENT OF JUSTICE, TOTAL	200	-	200	-	25,975	-	200	3,728	8,145	13,902
DRUG ENFORCEMENT ADMIN	200	-	200	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	650	-	-	228	45	377
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,250	-	-	-	-	1,250
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	24,075	-	200	3,500	8,100	12,275
DEPARTMENT OF LABOR, TOTAL	698	-	698	-	44,015	-	29,211	-	737	14,067
BUREAU OF LABOR STATISTICS	-	-	-	-	925	-	925	-	-	-
EMPLOYMENT STANDARDS ADMIN	-	-	-	-	6,348	-	6,348	-	-	-
EMPLOYMENT & TRAINING ADMIN	698	-	698	-	25,407	-	10,603	-	737	14,067
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,189	-	3,189	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	6,546	-	6,546	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,600	-	1,600	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,599	-	945	-	-	654
DEPARTMENTAL FUNDS	-	-	-	-	1,599	-	945	-	-	654

CONTINUED ON NEXT PAGE

TABLE C-27. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	12,074	1,127	5,584	5,363	10,871	-	5,861	-	4,660	350
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	100	-	100	-	550	-	200	-	-	350
FEDERAL RAILROAD ADMINISTRATION	31	-	31	-	11	-	11	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	10,943	1,127	4,453	5,363	9,390	-	4,730	-	4,660	-
OFFICE OF THE SECRETARY	-	-	-	-	300	-	300	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,000	-	1,000	-	520	-	520	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	705	675	30	-	2,375	-	-	-	25	2,350
INTERNAL REVENUE SERVICE	705	675	30	-	2,375	-	-	-	25	2,350
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,717	-	858	859	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	653	-	653	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
ENVIRONMENTAL PROTECTION AGENCY	1,038	-	1,038	-	1,739	-	1,239	-	500	-
FEDERAL COMMUNICATIONS COMMISSION	118	-	-	118	2,162	-	2,162	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	478	478	-	-	1,256	-	366	314	576	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,211	-	1,211	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,343	-	1,343	-	-	-
GENERAL SERVICES ADMINISTRATION	25	-	25	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	9,583	-	3,185	1,753	3,575	1,070
AGENCY FOR INTERNAT'L DEVELOPMENT ..	-	-	-	-	9,583	-	3,185	1,753	3,575	1,070
INTERSTATE COMMERCE COMMISSION	99	-	99	-	62	-	62	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,186	1,736	450	-	200	-	-	50	-	150
NATIONAL SCIENCE FOUNDATION	48,766	26,900	21,816	50	56,969	7,235	14,088	4,788	4,788	26,070
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	300	-	-	300	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	13,818	6,015	-	-	-	7,8[illegible]
US ARMS CONTROL & DISARMAMENT AGENCY .	313	-	120	193	1,190	-	385	805	-	-
US INTERNAT'L TRADE COMMISSION	-	-	-	-	2,679	-	2,679	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	353,345	104,169	189,430	59,746	601,729	20,997	211,652	18,988	72,027	278,055
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	4,232	4,232	-	-	95,155	21	87,661	81	5,789	1,603
ECON, STAT & COOPERATIVES SERVICE ..	1,177	1,177	-	-	43,423	-	41,888	-	948	637
FOREST SERVICE	1,735	1,735	-	-	10,052	-	7,026	81	2,945	-
SCIENCE & EDUCATION ADMINISTRATION .	1,320	1,320	-	-	41,680	21	38,747	-	1,996	916
AGRICULTURAL RESEARCH	1,320	1,320	-	-	3,967	21	3,030	-	-	916
COOPERATIVE RESEARCH	-	-	-	-	37,713	-	35,717	-	1,996	-
DEPARTMENT OF COMMERCE, TOTAL	8,440	5,559	2,881	-	7,353	-	5,825	986	127	415
BUREAU OF THE CENSUS	1,169	1,051	118	-	281	-	154	-	127	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	2,500	-	2,500	-	-	-
MARITIME ADMINISTRATION	300	-	300	-	500	-	500	-	-	-
NATIONAL BUREAU OF STANDARDS	5,367	3,779	1,588	-	1,185	-	1,185	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	1,604	729	875	-	2,636	-	1,235	986	-	415
NAT'L TELECOMM & INFO ADMIN	-	-	-	-	251	-	251	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	229,250	38,282	139,875	51,093	10,293	-	150	2,434	3,381	4,328
DEPARTMENT OF THE ARMY	49,986	10,644	11,263	28,079	1,181	-	150	-	992	39
DEPARTMENT OF THE NAVY	65,551	10,681	47,417	7,453	2,389	-	-	-	2,389	-
DEPARTMENT OF THE AIR FORCE	62,109	12,843	48,866	400	-	-	-	-	-	-
DEFENSE AGENCIES	51,604	4,114	32,329	15,161	6,723	-	-	2,434	-	4,289
DEPARTMENT OF EDUCATION	-	-	-	-	63,995	-	-	-	-	63,995
DEPARTMENT OF ENERGY	13,500	7,272	4,848	1,380	2,920	-	-	-	-	2,920
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	8,948	8,043	-	905	196,462	3,251	19,055	1,348	38,535	134,273
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,013	108	-	905	35,988	3,251	538	537	27,674	3,988
HEALTH CARE FINANCING ADMIN	-	-	-	-	52,357	-	-	-	-	52,357
NATIONAL INSTITUTES OF HEALTH	7,935	7,935	-	-	16,297	-	-	-	-	16,297
OFFICE OF ASST'T SECY FOR HEALTH ...	-	-	-	-	32,409	-	1,717	811	3,661	26,220
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	12,024	-	-	-	-	12,024
OFFICE OF THE SECRETARY	-	-	-	-	24,000	-	16,800	-	7,200	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	23,387	-	-	-	-	23,387
DEPT OF HOUSING & URBAN DEV	-	-	-	-	21,731	-	16,176	-	-	5,555
DEPARTMENT OF THE INTERIOR, TOTAL	7,753	4,784	2,809	160	7,085	3,312	1,611	950	937	275
BUREAU OF LAND MANAGEMENT	-	-	-	-	74	-	-	-	74	-
BUREAU OF MINES	4,500	4,500	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	2,731	284	2,447	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	5	-	5	-	3,654	3,312	-	-	342	-
OFFICE OF THE SECRETARY	357	-	357	-	714	-	714	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	160	-	-	160	2,450	-	850	950	375	275
WATER & POWER RESOURCES SVC	-	-	-	-	193	-	47	-	146	-
DEPARTMENT OF JUSTICE, TOTAL	100	-	100	-	23,866	-	500	2,279	7,656	13,431
DRUG ENFORCEMENT ADMIN	100	-	100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	798	-	-	279	56	463
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,643	-	-	-	-	1,643
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	21,425	-	500	2,000	7,600	11,325
DEPARTMENT OF LABOR, TOTAL	1,000	-	1,000	-	50,264	-	36,952	-	680	12,632
BUREAU OF LABOR STATISTICS	-	-	-	-	1,117	-	1,117	-	-	-
EMPLOYMENT STANDARDS ADMIN	-	-	-	-	6,483	-	6,483	-	-	-
EMPLOYMENT & TRAINING ADMIN	1,000	-	1,000	-	27,307	-	13,995	-	680	12,632
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	3,257	-	3,257	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN .	-	-	-	-	10,300	-	10,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,800	-	1,800	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,599	-	945	-	-	654
DEPARTMENTAL FUNDS	-	-	-	-	1,599	-	945	-	-	654

CONTINUED ON NEXT PAGE

TABLE C-28. FEDERAL OBLIGATIONS FOR RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	12,898	1,250	5,810	5,838	12,873	-	6,773	-	5,800	300
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	100	-	100	-	300	-	-	-	-	300
FEDERAL RAILROAD ADMINISTRATION	29	-	29	-	10	-	10	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	12,029	1,250	4,941	5,838	10,318	-	5,248	-	5,070	-
OFFICE OF THE SECRETARY	-	-	-	-	275	-	275	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	740	-	740	-	1,870	-	1,140	-	730	-
DEPARTMENT OF THE TREASURY, TOTAL	490	490	-	-	2,600	-	-	-	100	2,500
INTERNAL REVENUE SERVICE	490	490	-	-	2,600	-	-	-	100	2,500
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,836	-	918	918	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	572	-	572	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
ENVIRONMENTAL PROTECTION AGENCY	1,738	500	1,238	-	2,746	-	2,246	-	500	-
FEDERAL COMMUNICATIONS COMMISSION	100	-	-	100	1,825	-	1,825	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	-	-	-	-	1,835	-	535	459	841	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,342	-	1,342	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,514	-	1,514	-	-	-
GENERAL SERVICES ADMINISTRATION	75	-	75	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	12,144	-	7,212	2,108	1,389	1,435
AGENCY FOR INTERNAT'L DEVELOPMENT ..	-	-	-	-	12,144	-	7,212	2,108	1,389	1,435
INTERSTATE COMMERCE COMMISSION	150	-	150	-	90	-	90	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	7,747	2,528	5,219	-	215	-	-	55	-	160
NATIONAL SCIENCE FOUNDATION	56,579	31,229	25,300	50	57,646	7,952	14,701	5,292	5,292	24,409
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	900	-	-	900	-	-
SMITHSONIAN INSTITUTION	-	-	-	-	15,641	6,461	-	-	-	9,180
US ARMS CONTROL & DISARMAMENT AGENCY .	345	-	125	220	1,568	-	390	1,178	-	-
US INTERNAT'L TRADE COMMISSION	-	-	-	-	4,059	-	4,059	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-29. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	4,097,311	1,026,184	266,725	66,642	2,065,652	393,607	232,527	6,730	19,758	19,516
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	256,420	168,895	2,141	-	83,967	-	133	-	563	721
ECON, STAT & COOPERATIVES SERVICE	6,390	6,218	-	-	172	-	-	-	-	-
FOREST SERVICE	31,400	24,512	405	-	5,964	-	72	-	266	191
SCIENCE & EDUCATION ADMINISTRATION	218,630	138,165	1,736	-	77,831	-	61	-	297	540
AGRICULTURAL RESEARCH	148,170	135,793	1,736	-	9,944	-	61	-	96	540
COOPERATIVE RESEARCH	70,460	2,372	-	-	67,887	-	-	-	201	-
DEPARTMENT OF COMMERCE, TOTAL	24,751	19,465	2,751	-	1,843	-	692	-	-	-
BUREAU OF THE CENSUS	600	442	-	-	158	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	500	2	35	-	145	-	318	-	-	-
MARITIME ADMINISTRATION	2,000	3	1,897	-	100	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	8,800	8,540	70	-	190	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	12,851	10,478	749	-	1,250	-	374	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	363,322	110,052	54,800	-	163,379	9,247	18,187	634	-	7,023
DEPARTMENT OF THE ARMY	59,482	23,160	2,470	-	24,479	-	8,264	-	-	1,109
DEPARTMENT OF THE NAVY	147,700	55,567	10,325	-	74,473	-	3,286	140	-	3,909
DEPARTMENT OF THE AIR FORCE	96,800	22,840	21,742	-	46,400	60	3,718	35	-	2,005
DEFENSE AGENCIES	59,340	8,485	20,263	-	18,027	9,187	2,919	459	-	-
DEPARTMENT OF EDUCATION	20,567	3,808	812	-	8,710	-	5,127	-	2,060	50
DEPARTMENT OF ENERGY	462,968	4,809	1,912	52,986	97,215	299,288	1,377	5,361	-	20
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,576,011	322,890	19,358	11,659	1,020,679	6,250	168,916	258	16,654	9,347
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	94,622	36,109	175	-	47,284	-	9,249	-	1,205	600
HEALTH SERVICES ADMINISTRATION	1,988	1,988	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,463,703	280,912	17,676	11,659	965,810	6,250	158,056	258	15,403	7,679
OFFICE OF ASST'T SECY FOR HEALTH	13,615	3,879	1,507	-	5,504	-	1,611	-	46	1,068
OFFICE OF THE SECRETARY	2,083	2	-	-	2,081	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	72,522	62,863	612	-	8,794	-	-	-	100	153
BUREAU OF MINES	13,700	13,700	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	49,009	45,015	-	-	3,994	-	-	-	-	-
OFFICE OF THE SECRETARY	1,413	848	412	-	-	-	-	-	-	153
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	500	-	-	4,100	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,700	2,700	200	-	700	-	-	-	100	-
WATER & POWER RESOURCES SVC	100	100	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	7,900	695	158	-	3,452	-	3,420	-	175	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	7,900	695	158	-	3,452	-	3,420	-	175	-
DEPARTMENT OF LABOR, TOTAL	2,286	1,008	144	-	1,134	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	1,786	508	144	-	1,134	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	45	2	-	-	25	-	18	-	-	-
DEPARTMENTAL FUNDS	45	2	-	-	25	-	18	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	220	95	125	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	220	95	125	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	10,100	4,370	3,060	-	2,670	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,014	1,447	-	-	1,467	-	100	-	-	-
FEDERAL TRADE COMMISSION	445	445	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	14	14	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	100	100	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	512,847	221,125	174,519	-	96,785	11,700	6,810	271	9	1,628
NATIONAL SCIENCE FOUNDATION	733,255	56,964	6,333	1,997	574,137	67,122	25,755	176	197	574
SMITHSONIAN INSTITUTION	36,901	33,685	-	-	1,224	-	1,992	-	-	-
TENNESSEE VALLEY AUTHORITY	4,100	4,100	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	9,523	9,352	-	-	171	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-3[illegible]. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	4,508,578	1,096,400	294,341	77,360	2,288,242	444,503	250,001	7,271	21,762	28,698
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	287,991	192,877	3,199	-	90,416	-	113	-	659	727
ECON, STAT & COOPERATIVES SERVICE	7,578	7,398	-	-	180	-	-	-	-	-
FOREST SERVICE	33,900	26,965	437	-	6,000	-	16	-	287	195
SCIENCE & EDUCATION ADMINISTRATION	246,513	158,514	2,762	-	84,236	-	97	-	372	532
AGRICULTURAL RESEARCH	170,479	155,775	2,762	-	11,160	-	97	-	153	532
COOPERATIVE RESEARCH	76,034	2,739	-	-	73,076	-	-	-	219	-
DEPARTMENT OF COMMERCE, TOTAL	28,960	23,372	3,045	-	2,063	-	437	-	-	43
BUREAU OF THE CENSUS	549	255	-	-	294	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	300	2	20	-	100	-	178	-	-	-
MARITIME ADMINISTRATION	2,100	3	2,047	-	50	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	12,512	12,245	72	-	195	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	13,455	10,866	906	-	1,424	-	259	-	-	-
OFFICE OF THE SECRETARY	44	1	-	-	-	-	-	-	-	43
DEPARTMENT OF DEFENSE, TOTAL	430,321	124,769	63,792	-	190,260	21,765	17,101	907	-	11,727
DEPARTMENT OF THE ARMY	73,920	31,652	3,361	-	31,670	-	5,847	-	-	1,390
DEPARTMENT OF THE NAVY	167,000	59,065	11,106	-	83,783	-	4,553	450	-	8,043
DEPARTMENT OF THE AIR FORCE	110,000	24,716	23,760	-	55,711	60	3,718	35	-	2,000
DEFENSE AGENCIES	79,401	9,336	25,565	-	19,096	21,705	2,983	422	-	294
DEPARTMENT OF EDUCATION	22,042	4,142	910	-	9,260	-	5,570	-	2,160	-
DEPARTMENT OF ENERGY	520,277	3,980	2,115	57,787	114,240	335,096	1,491	5,547	-	21
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,698,590	337,191	25,189	17,338	1,102,938	6,808	179,668	356	18,333	10,769
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	101,945	39,462	-	-	47,773	-	12,649	-	1,351	710
HEALTH SERVICES ADMINISTRATION	2,000	2,000	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,579,493	291,804	23,686	17,338	1,048,368	6,808	165,414	356	16,930	8,789
OFFICE OF ASST'T SECY FOR HEALTH	13,352	3,923	1,503	-	4,999	-	1,605	-	52	1,270
OFFICE OF THE SECRETARY	1,800	2	-	-	1,798	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	76,121	65,056	1,482	-	6,880	-	-	-	50	2,653
BUREAU OF MINES	14,700	14,700	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	48,946	45,466	-	-	3,480	-	-	-	-	-
OFFICE OF THE SECRETARY	4,075	940	482	-	-	-	-	-	-	2,653
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	500	1,000	-	3,100	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,600	3,250	-	-	300	-	-	-	50	-
WATER & POWER RESOURCES SVC	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	8,400	835	200	-	1,345	-	5,670	-	350	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	8,400	835	200	-	1,345	-	5,670	-	350	-
DEPARTMENT OF LABOR, TOTAL	3,233	1,213	-	-	2,020	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	2,733	713	-	-	2,020	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,800	980	750	-	-	-	70	-	-	-
INTERNAL REVENUE SERVICE	1,800	980	750	-	-	-	70	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	13,500	6,020	2,830	-	4,650	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,642	952	-	-	1,590	-	100	-	-	-
FEDERAL TRADE COMMISSION	345	345	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	100	100	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	537,839	221,646	183,884	-	108,000	15,394	6,992	276	10	1,637
NATIONAL SCIENCE FOUNDATION	820,861	61,142	6,945	2,235	653,127	65,440	30,466	185	200	1,121
SMITHSONIAN INSTITUTION	41,025	37,276	-	-	1,426	-	2,323	-	-	-
TENNESSEE VALLEY AUTHORITY	4,300	4,300	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	10,231	10,204	-	-	27	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-31. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	4,901,856	1,172,397	316,111	86,853	2,521,534	480,071	262,326	7,416	23,458	31,690
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	323,563	210,983	4,912	-	103,037	-	174	-	801	3,656
ECON, STAT & COOPERATIVES SERVICE	8,028	7,848	-	-	180	-	-	-	-	-
FOREST SERVICE	37,500	29,187	489	-	7,269	-	17	-	320	218
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	5,358	1,675	-	-	825	-	-	-	-	2,858
SCIENCE & EDUCATION ADMINISTRATION	272,677	172,273	4,423	-	94,763	-	157	-	481	580
AGRICULTURAL RESEARCH	187,120	169,195	4,423	-	12,520	-	157	-	245	580
COOPERATIVE RESEARCH	85,557	3,078	-	-	82,243	-	-	-	236	-
DEPARTMENT OF COMMERCE, TOTAL	32,172	26,252	3,033	-	2,269	-	618	-	-	-
BUREAU OF THE CENSUS	560	251	-	-	309	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	300	2	20	-	100	-	178	-	-	-
MARITIME ADMINISTRATION	1,820	3	1,767	-	50	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	14,812	14,545	72	-	195	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	14,680	11,451	1,174	-	1,615	-	440	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	515,390	142,940	75,902	-	238,532	20,841	23,108	513	-	13,554
DEPARTMENT OF THE ARMY	107,790	41,473	5,630	-	47,780	-	11,214	-	-	1,693
DEPARTMENT OF THE NAVY	194,800	63,105	13,653	-	102,351	-	5,610	420	-	9,661
DEPARTMENT OF THE AIR FORCE	125,300	21,200	28,360	-	69,430	70	4,000	40	-	2,200
DEFENSE AGENCIES	87,500	17,162	28,259	-	18,971	20,771	2,284	53	-	-
DEPARTMENT OF EDUCATION	26,170	4,985	1,081	-	11,024	-	6,484	-	2,596	-
DEPARTMENT OF ENERGY	581,831	6,605	3,366	66,344	129,786	367,515	2,142	6,057	-	16
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,788,099	350,869	25,141	18,195	1,176,874	7,819	178,663	320	19,431	10,787
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	111,540	41,945	-	-	54,075	-	13,169	-	1,639	712
HEALTH SERVICES ADMINISTRATION	2,200	2,200	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,657,087	302,776	23,465	18,195	1,114,021	7,819	163,698	320	17,726	9,067
OFFICE OF ASST'T SECY FOR HEALTH	15,072	3,946	1,676	-	6,580	-	1,796	-	66	1,008
OFFICE OF THE SECRETARY	2,200	2	-	-	2,198	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	77,024	67,529	1,475	-	6,920	-	-	-	100	1,000
BUREAU OF MINES	15,800	15,800	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	50,196	46,776	-	-	3,420	-	-	-	-	-
OFFICE OF THE SECRETARY	2,428	1,003	425	-	-	-	-	-	-	1,000
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	500	1,000	-	3,100	-	-	-	-	-
US FISH & WILDLIFE SERVICE	3,800	3,250	50	-	400	-	-	-	100	-
WATER & POWER RESOURCES SVC	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	8,000	585	150	-	1,455	-	5,510	-	300	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	8,000	585	150	-	1,455	-	5,510	-	300	-
DEPARTMENT OF LABOR, TOTAL	2,745	1,232	-	-	1,513	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	2,245	732	-	-	1,513	-	-	-	-	-
LABOR-MANAGEMENT SERVICES ADMIN	500	500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	1,950	900	1,000	-	-	-	50	-	-	-
INTERNAL REVENUE SERVICE	1,950	900	1,000	-	-	-	50	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	18,500	8,060	5,560	-	4,880	-	-	-	-	-
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	12,000	1,200	3,000	-	4,800	-	3,000	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,642	952	-	-	1,345	245	100	-	-	-
FEDERAL TRADE COMMISSION	293	293	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	100	100	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	544,689	229,671	183,660	-	111,000	11,344	7,089	276	10	1,639
NATIONAL SCIENCE FOUNDATION	906,320	62,843	7,831	2,314	726,567	72,307	32,950	250	220	1,038
SMITHSONIAN INSTITUTION	45,221	41,286	-	-	1,497	-	2,438	-	-	-
TENNESSEE VALLEY AUTHORITY	4,900	4,900	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	10,247	10,212	-	-	35	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-32. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1979	ESTIMATES	
		1980	1981
TOTAL, ALL FIELDS	4,097,311	4,508,578	4,901,956
LIFE SCIENCES, TOTAL	1,870,645	2,035,338	2,175,990
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	1,054,333	1,139,577	1,207,526
ENVIRONMENTAL BIOLOGY	90,475	100,930	110,026
AGRICULTURAL	132,963	157,543	181,019
MEDICAL	540,497	585,233	624,170
LIFE SCIENCES, NEC	52,377	52,055	53,250
PSYCHOLOGY, TOTAL	71,133	77,522	85,786
BIOLOGICAL ASPECTS	26,360	28,487	28,891
SOCIAL ASPECTS	30,053	33,312	38,513
PSYCHOLOGICAL SCIENCES, NEC	14,720	15,723	18,382
PHYSICAL SCIENCES, TOTAL	1,021,515	1,122,724	1,226,621
ASTRONOMY	279,505	284,715	302,952
CHEMISTRY	220,842	248,949	276,455
PHYSICS	512,231	579,446	632,318
PHYSICAL SCIENCES, NEC	8,937	9,614	14,896
ENVIRONMENTAL SCIENCES, TOTAL	463,279	509,212	530,488
ATMOSPHERIC	173,111	189,505	187,018
GEOLOGICAL	156,298	178,802	187,115
OCEANOGRAPHY	122,574	127,857	143,377
ENVIRONMENTAL SCIENCES, NEC	11,296	13,048	12,978
MATHEMATICS & COMPUTER SCIENCES, TOTAL	96,111	108,415	129,908
MATHEMATICS	53,866	62,170	71,416
COMPUTER SCIENCES	40,882	43,936	55,396
MATHEMATICS & COMPUTER SCIENCES, NEC	1,363	2,309	3,096
ENGINEERING, TOTAL	395,097	443,471	520,679
AERONAUTICAL	84,399	97,050	104,674
ASTRONAUTICAL	25,167	26,521	32,360
CHEMICAL	17,084	18,409	21,037
CIVIL	14,182	17,840	17,308
ELECTRICAL	48,231	54,982	69,805
MECHANICAL	29,861	33,646	40,573
METALLURGY & MATERIALS	143,470	159,335	185,584
ENGINEERING, NEC	32,703	35,688	49,338
SOCIAL SCIENCES, TOTAL	129,538	142,086	154,864
ANTHROPOLOGY	12,488	13,601	14,800
ECONOMICS	32,676	35,864	37,150
POLITICAL SCIENCE	4,135	7,123	8,892
SOCIOLOGY	18,258	20,851	23,969
SOCIAL SCIENCES, NEC	61,981	64,647	70,053
OTHER SCIENCES, NEC	49,993	69,810	77,520

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-33. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC .
TOTAL, ALL AGENCIES	4,097,311	1,870,645	71,133	1,021,515	463,279	96,111	395,097	129,538	49,993
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	256,420	193,643	31	23,775	4,219	1,137	13,280	20,335	-
ECON, STAT & COOPERATIVES SERVICE	6,390	-	-	-	-	64	-	6,326	-
FOREST SERVICE	31,400	21,258	31	1,444	2,983	628	3,674	1,382	-
SCIENCE & EDUCATION ADMINISTRATION	218,630	172,385	-	22,331	1,236	445	9,606	12,627	-
AGRICULTURAL RESEARCH	148,170	119,277	-	19,559	889	445	7,705	296	-
COOPERATIVE RESEARCH	70,460	53,108	-	2,773	347	-	1,901	12,331	-
DEPARTMENT OF COMMERCE, TOTAL	24,751	-	128	8,931	10,804	1,413	2,975	500	-
BUREAU OF THE CENSUS	600	-	128	-	-	472	-	-	-
ECONOMIC DEVELOPMENT ADMIN	500	-	-	-	-	-	-	500	-
MARITIME ADMINISTRATION	2,000	-	-	-	-	-	2,000	-	-
NATIONAL BUREAU OF STANDARDS	8,800	-	-	7,895	25	300	580	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	12,851	-	-	1,036	10,779	641	395	-	-
DEPARTMENT OF DEFENSE, TOTAL	363,322	40,611	16,569	89,864	69,926	35,671	107,619	1,778	1,284
DEPARTMENT OF THE ARMY	59,482	21,721	3,692	9,693	3,718	5,019	15,449	190	-
DEPARTMENT OF THE NAVY	147,700	13,772	3,496	43,577	52,861	9,605	22,801	1,588	-
DEPARTMENT OF THE AIR FORCE	96,800	4,278	4,927	24,038	7,540	9,266	46,751	-	-
DEFENSE AGENCIES	59,340	840	4,454	12,556	5,807	11,781	22,618	-	1,284
DEPARTMENT OF EDUCATION	20,567	-	-	-	-	-	-	20,567	-
DEPARTMENT OF ENERGY	462,968	27,458	-	345,607	6,193	8,634	75,062	-	14
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,576,011	1,424,105	40,098	40,733	-	3,663	13,897	28,347	25,168
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	94,622	56,745	26,122	400	-	265	73	9,253	1,764
HEALTH SERVICES ADMINISTRATION	1,988	1,988	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,463,703	1,365,372	13,976	40,333	-	3,398	13,824	3,396	23,404
OFFICE OF ASST'T SECY FOR HEALTH	13,615	-	-	-	-	-	-	13,615	-
OFFICE OF THE SECRETARY	2,083	-	-	-	-	-	-	2,083	-
DEPARTMENT OF THE INTERIOR, TOTAL	72,522	4,300	-	9,131	48,596	2,115	6,965	1,130	285
BUREAU OF MINES	13,700	-	-	6,200	900	900	5,700	-	-
GEOLOGICAL SURVEY	49,009	-	-	2,581	45,568	860	-	-	-
OFFICE OF THE SECRETARY	1,413	-	-	-	468	315	-	630	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	600	-	350	1,660	40	1,175	500	275
US FISH & WILDLIFE SERVICE	3,700	3,700	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	100	-	-	-	-	-	90	-	10
DEPARTMENT OF JUSTICE, TOTAL	7,900	350	750	-	-	-	-	6,800	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	7,900	350	750	-	-	-	-	6,800	-
DEPARTMENT OF LABOR, TOTAL	2,286	-	12	-	-	-	-	2,274	-
EMPLOYMENT & TRAINING ADMIN	1,786	-	12	-	-	-	-	1,774	-
LABOR-MANAGEMENT SERVICES ADMIN	500	-	-	-	-	-	-	500	-
DEPARTMENT OF STATE, TOTAL	45	-	-	-	-	-	-	45	-
DEPARTMENTAL FUNDS	45	-	-	-	-	-	-	45	-
DEPARTMENT OF THE TREASURY, TOTAL	220	-	-	-	-	-	-	220	-
INTERNAL REVENUE SERVICE	220	-	-	-	-	-	-	220	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	10,100	7,144	-	1,784	1,172	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,014	267	-	2,747	-	-	-	-	-
FEDERAL TRADE COMMISSION	445	-	-	-	-	-	-	445	-
GENERAL SERVICES ADMINISTRATION	14	-	-	14	-	-	-	-	-
LIBRARY OF CONGRESS	100	-	-	-	-	-	-	-	100
NATIONAL AERONAUTICS & SPACE ADMIN	512,847	15,029	484	292,495	103,068	1,062	98,902	134	1,673
NATIONAL SCIENCE FOUNDATION	733,255	133,184	11,882	197,064	216,403	42,416	76,397	34,440	21,469
SMITHSONIAN INSTITUTION	36,901	14,810	-	6,670	2,898	-	-	12,523	-
TENNESSEE VALLEY AUTHORITY	4,100	1,400	-	2,700	-	-	-	-	-
VETERANS ADMINISTRATION	9,523	8,344	1,179	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-34. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1990 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	4,508,578	2,035,338	77,522	1,122,724	509,212	108,415	445,471	142,086	69,810
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	287,991	217,267	33	27,064	4,790	1,095	14,889	22,853	-
ECON, STAT & COOPERATIVES SERVICE	7,579	-	-	-	-	76	-	7,502	-
FOREST SERVICE	33,900	22,951	33	1,559	3,221	678	3,966	1,492	-
SCIENCE & EDUCATION ADMINISTRATION	246,513	194,316	-	25,505	1,569	341	10,923	13,859	-
AGRICULTURAL RESEARCH	170,479	137,065	-	22,503	1,193	341	8,865	512	-
COOPERATIVE RESEARCH	76,034	57,251	-	3,002	376	-	2,058	13,347	-
DEPARTMENT OF COMMERCE, TOTAL	28,960	-	105	12,025	11,390	1,974	3,166	300	-
BUREAU OF THE CENSUS	549	-	105	-	-	444	-	-	-
ECONOMIC DEVELOPMENT ADMIN	300	-	-	-	-	-	-	300	-
MARITIME ADMINISTRATION	2,100	-	-	-	-	-	2,100	-	-
NATIONAL BUREAU OF STANDARDS	12,512	-	-	10,945	50	856	661	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	13,455	-	-	1,080	11,296	674	405	-	-
OFFICE OF THE SECRETARY	44	-	-	-	44	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	430,321	46,446	18,051	116,025	78,588	41,628	123,796	4,321	1,466
DEPARTMENT OF THE ARMY	73,920	24,359	4,169	13,029	4,724	6,392	21,088	159	-
DEPARTMENT OF THE NAVY	167,000	15,793	4,469	53,918	54,332	11,585	25,040	1,863	-
DEPARTMENT OF THE AIR FORCE	110,000	5,193	5,699	26,552	9,098	10,273	53,185	-	-
DEFENSE AGENCIES	79,401	1,101	3,714	22,526	10,434	13,378	24,483	2,299	1,466
DEPARTMENT OF EDUCATION	22,042	-	-	-	-	-	-	22,042	-
DEPARTMENT OF ENERGY	520,277	29,321	-	388,336	8,250	10,300	83,911	-	159
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,698,590	1,535,810	43,937	44,160	-	4,070	14,901	28,724	26,988
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	101,945	60,257	28,960	649	-	287	82	9,946	1,764
HEALTH SERVICES ADMINISTRATION	2,000	2,000	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,579,493	1,473,553	14,977	43,511	-	3,783	14,819	3,626	25,224
OFFICE OF ASST'T SECY FOR HEALTH	13,352	-	-	-	-	-	-	13,352	-
OFFICE OF THE SECRETARY	1,800	-	-	-	-	-	-	1,800	-
DEPARTMENT OF THE INTERIOR, TOTAL	76,121	4,200	-	9,432	50,838	2,289	7,781	1,212	369
BUREAU OF MINES	14,700	-	-	6,400	800	1,000	6,500	-	-
GEOLOGICAL SURVEY	48,946	-	-	2,682	45,370	894	-	-	-
OFFICE OF THE SECRETARY	4,075	-	-	-	3,008	355	-	712	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	600	-	350	1,660	40	1,175	500	275
US FISH & WILDLIFE SERVICE	3,600	3,600	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	200	-	-	-	-	-	106	-	94
DEPARTMENT OF JUSTICE, TOTAL	8,400	700	625	-	100	-	-	6,975	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	8,400	700	625	-	100	-	-	6,975	-
DEPARTMENT OF LABOR, TOTAL	3,233	-	22	-	-	-	-	3,211	-
EMPLOYMENT & TRAINING ADMIN	2,733	-	22	-	-	-	-	2,711	-
LABOR-MANAGEMENT SERVICES ADMIN	500	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	1,800	-	-	-	-	125	-	1,675	-
INTERNAL REVENUE SERVICE	1,800	-	-	-	-	125	-	1,675	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	13,500	9,175	-	2,059	2,266	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,642	574	-	2,068	-	-	-	-	-
FEDERAL TRADE COMMISSION	345	-	-	-	-	-	-	345	-
LIBRARY OF CONGRESS	100	-	-	-	-	-	-	-	100
NATIONAL AERONAUTICS & SPACE ADMIN	537,839	15,198	500	290,616	118,058	1,100	110,367	150	1,850
NATIONAL SCIENCE FOUNDATION	820,861	150,089	12,810	220,526	231,604	45,834	84,660	36,460	38,878
SMITHSONIAN INSTITUTION	41,025	16,166	-	7,713	3,328	-	-	13,818	-
TENNESSEE VALLEY AUTHORITY	4,300	1,600	-	2,700	-	-	-	-	-
VETERANS ADMINISTRATION	10,231	8,792	1,439	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-35. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	4,901,856	2,175,990	85,786	1,226,621	530,488	129,908	520,679	154,864	77,520
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	323,563	247,673	37	29,469	5,289	1,212	16,241	23,642	-
ECON, STAT & COOPERATIVES SERVICE	8,028	-	-	-	-	80	-	7,948	-
FOREST SERVICE	37,500	25,259	37	1,743	3,601	758	4,434	1,668	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	5,358	5,358	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	272,677	217,056	-	27,726	1,688	374	11,807	14,028	-
AGRICULTURAL RESEARCH	187,120	150,445	-	24,699	1,309	374	9,731	562	-
COOPERATIVE RESEARCH	85,557	66,611	-	3,027	379	-	2,076	13,464	-
DEPARTMENT OF COMMERCE, TOTAL	32,172	-	107	14,164	12,381	2,296	2,924	300	-
BUREAU OF THE CENSUS	560	-	107	-	-	453	-	-	-
ECONOMIC DEVELOPMENT ADMIN	300	-	-	-	-	-	-	300	-
MARITIME ADMINISTRATION	1,820	-	-	-	-	-	1,820	-	-
NATIONAL BUREAU OF STANDARDS	14,812	-	-	12,990	50	1,109	663	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	14,680	-	-	1,174	12,331	734	441	-	-
DEPARTMENT OF DEFENSE, TOTAL	515,390	62,644	21,290	134,118	82,979	52,994	153,864	5,801	1,700
DEPARTMENT OF THE ARMY	107,790	35,111	5,498	19,277	7,029	9,622	31,085	168	-
DEPARTMENT OF THE NAVY	194,800	18,707	5,604	60,113	62,823	14,706	30,458	2,389	-
DEPARTMENT OF THE AIR FORCE	125,300	7,226	7,053	26,495	10,968	9,768	63,790	-	-
DEFENSE AGENCIES	87,500	1,600	3,135	28,233	2,159	18,898	28,531	3,244	1,700
DEPARTMENT OF EDUCATION	26,170	-	-	-	-	-	-	26,170	-
DEPARTMENT OF ENERGY	581,831	34,043	-	426,752	11,020	12,120	97,645	-	251
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,788,099	1,613,067	48,100	46,230	-	4,287	15,634	32,287	28,494
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	111,543	64,934	32,386	577	-	317	86	11,211	2,029
HEALTH SERVICES ADMINISTRATION	2,200	2,200	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,657,087	1,545,933	15,714	45,653	-	3,970	15,548	3,804	26,465
OFFICE OF ASST'T SECY FOR HEALTH	15,072	-	-	-	-	-	-	15,072	-
OFFICE OF THE SECRETARY	2,200	-	-	-	-	-	-	2,200	-
DEPARTMENT OF THE INTERIOR, TOTAL	77,024	4,400	-	10,247	50,117	2,596	8,075	1,214	375
BUREAU OF MINES	15,800	-	-	6,900	900	1,200	6,800	-	-
GEOLOGICAL SURVEY	50,196	-	-	2,997	46,200	999	-	-	-
OFFICE OF THE SECRETARY	2,428	-	-	-	1,357	357	-	714	-
OFFICE OF WATER RSCH & TECHNOLOGY	4,600	600	-	350	1,660	40	1,175	500	275
US FISH & WILDLIFE SERVICE	3,800	3,800	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	200	-	-	-	-	-	100	-	100
DEPARTMENT OF JUSTICE, TOTAL	8,000	500	925	-	200	-	-	6,375	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	8,000	500	925	-	200	-	-	6,375	-
DEPARTMENT OF LABOR, TOTAL	2,745	-	-	-	-	-	-	2,745	-
EMPLOYMENT & TRAINING ADMIN	2,245	-	-	-	-	-	-	2,245	-
LABOR-MANAGEMENT SERVICES ADMIN	500	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	1,950	-	-	-	-	150	-	1,800	-
INTERNAL REVENUE SERVICE	1,950	-	-	-	-	150	-	1,800	-
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	18,500	12,481	-	2,569	3,450	-	-	-	-
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	12,000	-	-	-	-	-	12,000	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,642	574	-	2,068	-	-	-	-	-
FEDERAL TRADE COMMISSION	293	-	-	-	-	-	-	293	-
LIBRARY OF CONGRESS	100	-	-	-	-	-	-	-	100
NATIONAL AERONAUTICS & SPACE ADMIN	544,689	13,116	525	298,904	109,627	1,150	119,242	160	1,965
NATIONAL SCIENCE FOUNDATION	906,323	159,357	13,271	250,466	251,998	53,103	95,054	38,436	44,635
SMITHSONIAN INSTITUTION	45,221	17,819	-	8,334	3,427	-	-	15,641	-
TENNESSEE VALLEY AUTHORITY	4,900	1,600	-	3,300	-	-	-	-	-
VETERANS ADMINISTRATION	10,247	8,716	1,531	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-36. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	71,133	26,360	30,053	14,720	1,870,645	1,054,333	90,475	132,963	540,497	52,377
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	31	-	31	-	193,643	35,146	22,905	132,963	2,629	-
FOREST SERVICE	31	-	31	-	21,258	11,712	9,546	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	172,385	23,434	13,359	132,963	2,629	-
AGRICULTURAL RESEARCH	-	-	-	-	119,277	14,552	13,359	91,247	119	-
COOPERATIVE RESEARCH	-	-	-	-	53,108	8,882	-	41,716	2,510	-
DEPARTMENT OF COMMERCE, TOTAL	128	-	128	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	128	-	128	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	16,569	580	15,989	-	40,611	12,891	2,904	-	24,816	-
DEPARTMENT OF THE ARMY	3,692	-	3,692	-	21,721	865	205	-	20,651	-
DEPARTMENT OF THE NAVY	3,496	-	3,496	-	13,772	9,459	988	-	3,325	-
DEPARTMENT OF THE AIR FORCE	4,927	-	4,927	-	4,278	2,567	1,711	-	-	-
DEFENSE AGENCIES	4,454	580	3,874	-	840	-	-	-	840	-
DEPARTMENT OF ENERGY	-	-	-	-	27,458	27,458	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	40,098	15,938	10,038	14,122	1,424,105	871,516	-	-	504,166	48,423
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	26,122	15,938	10,038	146	56,745	44,183	-	-	6,097	6,465
HEALTH SERVICES ADMINISTRATION	-	-	-	-	1,988	-	-	-	1,988	-
NATIONAL INSTITUTES OF HEALTH	13,976	-	-	13,976	1,365,372	827,333	-	-	496,081	41,958
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	4,300	4,270	-	-	15	15
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	600	570	-	-	15	15
US FISH & WILDLIFE SERVICE	-	-	-	-	3,700	3,700	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	750	-	500	250	350	-	-	-	350	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	750	-	500	250	350	-	-	-	350	-
DEPARTMENT OF LABOR, TOTAL	12	-	12	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	12	-	12	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	7,144	-	7,144	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	267	267	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	484	86	90	308	15,029	11,471	344	-	1,244	1,970
NATIONAL SCIENCE FOUNDATION	11,882	8,587	3,255	40	133,184	83,882	47,333	-	-	1,969
SMITHSONIAN INSTITUTION	-	-	-	-	14,810	4,965	9,845	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,400	1,400	-	-	-	-
VETERANS ADMINISTRATION	1,179	1,169	10	-	8,344	1,067	-	-	7,277	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-37. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	77,522	28,487	33,312	15,723	2,035,338	1,139,577	100,930	157,543	585,233	52,055
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	33	-	33	-	217,267	37,204	21,408	155,801	2,854	-
FOREST SERVICE	33	-	33	-	22,951	12,645	10,306	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	194,316	24,559	11,102	155,801	2,854	-
AGRICULTURAL RESEARCH	-	-	-	-	137,065	15,077	11,102	110,749	137	-
COOPERATIVE RESEARCH	-	-	-	-	57,251	9,482	-	45,052	2,717	-
DEPARTMENT OF COMMERCE, TOTAL	105	-	105	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	105	-	105	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	18,051	91	17,960	-	46,446	14,829	4,267	-	27,350	-
DEPARTMENT OF THE ARMY	4,169	-	4,169	-	24,359	1,365	298	-	22,696	-
DEPARTMENT OF THE NAVY	4,469	-	4,469	-	15,793	10,348	1,892	-	3,553	-
DEPARTMENT OF THE AIR FORCE	5,699	-	5,699	-	5,193	3,116	2,077	-	-	-
DEFENSE AGENCIES	3,714	91	3,623	-	1,101	-	-	-	1,101	-
DEPARTMENT OF ENERGY	-	-	-	-	29,321	29,321	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	43,937	17,628	11,151	15,158	1,535,810	942,545	-	-	545,325	47,943
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	28,960	17,628	11,151	181	60,257	46,373	-	-	6,824	7,063
HEALTH SERVICES ADMINISTRATION	-	-	-	-	2,000	-	-	-	2,000	-
NATIONAL INSTITUTES OF HEALTH	14,977	-	-	14,977	1,473,553	896,172	-	-	536,501	40,880
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	4,200	4,170	-	-	15	15
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	600	570	-	-	15	15
US FISH & WILDLIFE SERVICE	-	-	-	-	3,600	3,600	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	625	-	425	200	700	-	-	-	700	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	625	-	425	200	700	-	-	-	700	-
DEPARTMENT OF LABOR, TOTAL	22	-	22	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	22	-	22	-	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	9,175	-	7,433	1,742	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	574	574	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	500	90	95	315	15,198	11,298	400	-	1,300	2,200
NATIONAL SCIENCE FOUNDATION	12,810	9,249	3,511	50	150,089	91,289	56,900	-	-	1,900
SMITHSONIAN INSTITUTION	-	-	-	-	16,166	5,644	10,522	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,600	1,600	-	-	-	-
VETERANS ADMINISTRATION	1,439	1,429	10	-	8,792	1,103	-	-	7,689	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-38. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	85,786	28,891	38,513	18,382	2,175,990	1,207,526	110,026	181,018	624,170	53,250
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	37	-	37	-	247,673	43,177	23,307	178,299	2,890	-
FOREST SERVICE	37	-	37	-	25,259	14,138	11,121	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	-	-	-	-	5,358	-	-	5,358	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	217,056	29,039	12,186	172,941	2,890	-
AGRICULTURAL RESEARCH	-	-	-	-	150,445	16,559	12,186	121,559	150	-
COOPERATIVE RESEARCH	-	-	-	-	66,611	12,489	-	51,382	2,740	-
DEPARTMENT OF COMMERCE, TOTAL	107	-	107	-	-	-	-	-	-	-
BUREAU OF THE CENSUS	107	-	107	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	21,290	-	21,290	-	62,644	19,075	5,567	-	38,002	-
DEPARTMENT OF THE ARMY	5,498	-	5,498	-	35,111	2,009	430	-	32,672	-
DEPARTMENT OF THE NAVY	5,604	-	5,604	-	18,707	12,730	2,247	-	3,730	-
DEPARTMENT OF THE AIR FORCE	7,053	-	7,053	-	7,226	4,336	2,890	-	-	-
DEFENSE AGENCIES	3,135	-	3,135	-	1,600	-	-	-	1,600	-
DEPARTMENT OF ENERGY	-	-	-	-	34,043	34,043	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	48,100	17,568	13,025	17,507	1,613,067	989,824	-	-	573,908	49,335
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	32,386	17,568	13,025	1,793	64,934	49,980	-	-	7,763	7,191
HEALTH SERVICES ADMINISTRATION	-	-	-	-	2,200	-	-	-	2,200	-
NATIONAL INSTITUTES OF HEALTH	15,714	-	-	15,714	1,545,933	939,844	-	-	563,945	42,144
DEPARTMENT OF THE INTERIOR, TOTAL	-	-	-	-	4,400	4,370	-	-	15	15
OFFICE OF WATER RSCH & TECHNOLOGY	-	-	-	-	600	570	-	-	15	15
US FISH & WILDLIFE SERVICE	-	-	-	-	3,800	3,800	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	925	-	425	500	500	-	-	-	500	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	925	-	425	500	500	-	-	-	500	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	12,481	-	9,762	2,719	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	-	-	-	-	574	574	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	525	100	100	325	13,116	9,166	400	-	1,300	2,250
NATIONAL SCIENCE FOUNDATION	13,271	9,702	3,519	50	159,357	97,921	59,786	-	-	1,650
SMITHSONIAN INSTITUTION	-	-	-	-	17,819	6,615	11,204	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,600	1,600	-	-	-	-
VETERANS ADMINISTRATION	1,531	1,521	10	-	8,716	1,161	-	-	7,555	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-39. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,021,515	279,505	20,842	512,231	8,937	463,279	173,111	156,298	122,574	11,296
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	23,775	-	22,254	1,521	-	4,219	2,061	2,158	-	-
FOREST SERVICE	1,444	-	1,256	188	-	2,983	973	2,010	-	-
SCIENCE & EDUCATION ADMINISTRATION	22,331	-	20,998	1,333	-	1,236	1,088	148	-	-
AGRICULTURAL RESEARCH	19,558	-	18,225	1,333	-	889	741	148	-	-
COOPERATIVE RESEARCH	2,773	-	2,773	-	-	347	347	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	8,931	534	1,729	6,668	-	10,804	7,276	64	3,464	-
NATIONAL BUREAU OF STANDARDS	7,895	534	1,599	5,762	-	25	25	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,036	-	130	906	-	10,779	7,251	64	3,464	-
DEPARTMENT OF DEFENSE, TOTAL	89,864	10,401	24,525	54,752	186	69,926	12,057	10,093	39,616	8,160
DEPARTMENT OF THE ARMY	9,693	-	4,251	5,256	186	3,718	2,134	1,449	-	135
DEPARTMENT OF THE NAVY	43,577	6,279	10,069	27,229	-	52,861	3,912	3,794	37,130	8,025
DEPARTMENT OF THE AIR FORCE	24,038	4,122	10,020	9,896	-	7,540	6,011	1,529	-	-
DEFENSE AGENCIES	12,556	-	185	12,371	-	5,807	-	3,321	2,486	-
DEPARTMENT OF ENERGY	345,607	-	57,711	287,746	150	6,193	-	6,143	-	50
DEPT OF HLTH & HUMAN SERVICES, TOTAL	40,733	-	36,676	4,057	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	400	-	400	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	40,333	-	36,276	4,057	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	9,131	-	6,496	935	1,700	48,596	150	45,837	1,651	958
BUREAU OF MINES	6,200	-	4,500	-	1,700	900	-	900	-	-
GEOLOGICAL SURVEY	2,581	-	1,721	860	-	45,568	-	43,937	1,631	-
OFFICE OF THE SECRETARY	-	-	-	-	-	468	-	-	-	468
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	275	75	-	1,660	150	1,000	20	490
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	1,784	-	1,784	-	-	1,172	1,172	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,747	-	1,355	1,392	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	14	-	14	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	292,495	210,836	5,281	69,584	6,794	103,068	71,207	26,533	3,333	1,995
NATIONAL SCIENCE FOUNDATION	197,064	51,064	60,317	85,576	107	216,403	79,082	63,532	73,656	133
SMITHSONIAN INSTITUTION	6,670	6,670	-	-	-	2,898	106	1,938	854	-
TENNESSEE VALLEY AUTHORITY	2,700	-	2,700	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-40. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,122,724	284,715	248,949	579,446	9,614	509,212	189,505	178,802	127,857	13,348
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	27,064	-	25,497	1,567	-	4,790	2,450	2,340	-	-
FOREST SERVICE	1,559	-	1,356	203	-	3,221	1,051	2,170	-	-
SCIENCE & EDUCATION ADMINISTRATION	25,505	-	24,141	1,364	-	1,569	1,399	170	-	-
AGRICULTURAL RESEARCH	22,503	-	21,139	1,364	-	1,193	1,023	170	-	-
COOPERATIVE RESEARCH	3,002	-	3,002	-	-	376	376	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	12,025	515	2,376	9,134	-	11,390	7,648	68	3,630	44
NATIONAL BUREAU OF STANDARDS	10,945	515	2,242	8,188	-	50	50	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,080	-	134	946	-	11,296	7,598	68	3,630	-
OFFICE OF THE SECRETARY	-	-	-	-	-	44	-	-	-	44
DEPARTMENT OF DEFENSE, TOTAL	116,025	11,949	29,272	74,622	182	78,588	14,344	17,419	39,213	7,612
DEPARTMENT OF THE ARMY	13,029	-	5,645	7,202	182	4,724	2,801	1,786	-	137
DEPARTMENT OF THE NAVY	53,918	7,433	12,639	33,846	-	54,332	4,284	4,586	37,987	7,475
DEPARTMENT OF THE AIR FORCE	26,552	4,516	10,943	11,093	-	9,098	7,259	1,839	-	-
DEFENSE AGENCIES	22,526	-	45	22,481	-	10,434	-	9,208	1,226	-
DEPARTMENT OF ENERGY	388,336	-	66,088	321,898	350	8,250	-	8,100	-	150
DEPT OF HLTH & HUMAN SERVICES, TOTAL	44,160	-	39,746	4,414	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	649	-	649	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	43,511	-	39,097	4,414	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	9,432	-	6,638	994	1,800	50,838	150	44,959	2,331	3,398
BUREAU OF MINES	6,400	-	4,600	-	1,800	800	-	800	-	-
GEOLOGICAL SURVEY	2,682	-	1,788	894	-	45,370	-	43,059	2,311	-
OFFICE OF THE SECRETARY	-	-	-	-	-	3,008	-	-	-	3,008
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	250	100	-	1,660	150	1,100	20	390
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	100	-	-	-	100
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	100	-	-	-	100
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	2,059	-	2,059	-	-	2,266	1,227	1,039	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,068	-	1,099	969	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	290,616	207,805	5,256	70,623	6,932	118,058	81,358	30,991	4,160	1,549
NATIONAL SCIENCE FOUNDATION	220,526	56,733	68,218	95,225	350	231,604	82,161	71,629	77,619	175
SMITHSONIAN INSTITUTION	7,713	7,713	-	-	-	3,328	167	2,257	904	-
TENNESSEE VALLEY AUTHORITY	2,700	-	2,700	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-41. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,226,621	302,952	276,455	632,318	14,896	530,488	187,018	187,115	143,377	12,978
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	29,469	-	27,746	1,723	-	5,289	2,677	2,612	-	-
FOREST SERVICE	1,743	-	1,516	227	-	3,601	1,175	2,426	-	-
SCIENCE & EDUCATION ADMINISTRATION	27,726	-	26,230	1,496	-	1,688	1,502	186	-	-
AGRICULTURAL RESEARCH	24,699	-	23,203	1,496	-	1,309	1,123	186	-	-
COOPERATIVE RESEARCH	3,027	-	3,027	-	-	379	379	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	14,164	667	2,749	10,748	-	12,381	8,344	73	3,964	-
NATIONAL BUREAU OF STANDARDS	12,990	667	2,602	9,721	-	50	50	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,174	-	147	1,027	-	12,331	8,294	73	3,964	-
DEPARTMENT OF DEFENSE, TOTAL	134,118	13,630	33,889	86,457	142	82,979	17,502	10,885	45,229	9,363
DEPARTMENT OF THE ARMY	19,277	-	8,386	10,749	142	7,029	4,125	2,746	117	41
DEPARTMENT OF THE NAVY	60,113	8,422	15,088	36,603	-	62,823	4,885	5,663	42,953	9,322
DEPARTMENT OF THE AIR FORCE	26,495	5,208	10,415	10,872	-	10,968	8,492	2,476	-	-
DEFENSE AGENCIES	28,233	-	-	28,233	-	2,159	-	-	2,159	-
DEPARTMENT OF ENERGY	426,752	-	72,813	353,139	800	11,020	-	10,720	-	300
DEPT OF HLTH & HUMAN SERVICES, TOTAL	46,230	-	41,599	4,631	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	577	-	577	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	45,653	-	41,022	4,631	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	10,247	-	7,048	1,099	2,100	50,117	150	45,889	2,331	1,747
BUREAU OF MINES	6,900	-	4,800	-	2,100	900	-	900	-	-
GEOLOGICAL SURVEY	2,997	-	1,998	999	-	46,200	-	43,889	2,311	-
OFFICE OF THE SECRETARY	-	-	-	-	-	1,357	-	-	-	1,357
OFFICE OF WATER RSCH & TECHNOLOGY	350	-	250	100	-	1,660	150	1,100	20	390
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	200	-	-	-	200
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	200	-	-	-	200
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	2,569	-	2,569	-	-	3,450	2,189	1,261	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,068	-	1,099	969	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	298,904	217,722	6,685	62,993	11,504	109,627	67,241	36,475	4,818	1,093
NATIONAL SCIENCE FOUNDATION	250,466	62,599	76,958	110,559	350	251,998	88,715	76,921	86,087	275
SMITHSONIAN INSTITUTION	8,334	8,334	-	-	-	3,427	200	2,279	948	-
TENNESSEE VALLEY AUTHORITY	3,300	-	3,300	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-42. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	395,097	84,399	25,167	17,084	14,182	48,231	29,861	143,470	32,703
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	13,280	-	-	1,450	1,234	179	956	-	9,461
FOREST SERVICE	3,674	-	-	1,005	345	31	660	-	1,633
SCIENCE & EDUCATION ADMINISTRATION	9,606	-	-	445	889	148	296	-	7,828
AGRICULTURAL RESEARCH	7,705	-	-	445	889	148	296	-	5,927
COOPERATIVE RESEARCH	1,901	-	-	-	-	-	-	-	1,901
DEPARTMENT OF COMMERCE, TOTAL	2,975	-	-	251	1,152	493	465	311	303
MARITIME ADMINISTRATION	2,000	-	-	-	1,020	230	450	-	300
NATIONAL BUREAU OF STANDARDS	580	-	-	251	-	-	15	311	3
NAT'L OCEANIC & ATMOSPHERIC ADMIN	395	-	-	-	132	263	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	107,619	17,298	-	-	697	26,301	15,022	46,608	1,693
DEPARTMENT OF THE ARMY	15,449	1,500	-	-	563	7,268	2,307	3,749	62
DEPARTMENT OF THE NAVY	22,801	1,493	-	-	-	2,654	5,286	13,368	-
DEPARTMENT OF THE AIR FORCE	46,751	14,305	-	-	134	10,621	7,429	14,262	-
DEFENSE AGENCIES	22,618	-	-	-	-	5,758	-	15,229	1,631
DEPARTMENT OF ENERGY	75,062	-	-	1,531	-	496	384	72,440	211
DEPT OF HLTH & HUMAN SERVICES, TOTAL	13,897	-	-	-	-	-	-	-	13,897
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	73	-	-	-	-	-	-	-	73
NATIONAL INSTITUTES OF HEALTH	13,824	-	-	-	-	-	-	-	13,824
DEPARTMENT OF THE INTERIOR, TOTAL	6,965	-	-	100	500	500	400	4,520	945
BUREAU OF MINES	5,700	-	-	-	-	400	400	4,500	400
OFFICE OF WATER RSCH & TECHNOLOGY	1,175	-	-	100	500	10	-	20	545
WATER & POWER RESOURCES SVC	90	-	-	-	-	90	-	-	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	98,902	66,174	25,167	62	55	1,694	934	3,186	1,630
NATIONAL SCIENCE FOUNDATION	76,397	927	-	13,690	10,544	18,568	11,700	16,405	4,563

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-43. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	443,471	97,050	26,521	18,439	17,840	54,982	33,646	159,335	35,638
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	14,889	-	-	1,426	1,225	204	1,053	-	10,981
FOREST SERVICE	3,966	-	-	1,085	373	33	712	-	1,763
SCIENCE & EDUCATION ADMINISTRATION	10,923	-	-	341	852	171	341	-	9,218
AGRICULTURAL RESEARCH	8,865	-	-	341	852	171	341	-	7,160
COOPERATIVE RESEARCH	2,058	-	-	-	-	-	-	-	2,058
DEPARTMENT OF COMMERCE, TOTAL	3,166	-	-	-	1,412	313	460	549	432
MARITIME ADMINISTRATION	2,100	-	-	-	1,150	170	360	-	420
NATIONAL BUREAU OF STANDARDS	661	-	-	-	-	-	100	549	12
NAT'L OCEANIC & ATMOSPHERIC ADMIN	405	-	-	-	262	143	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	123,796	20,341	-	-	1,278	31,854	17,283	51,484	1,556
DEPARTMENT OF THE ARMY	21,088	2,011	-	-	778	9,839	2,944	5,457	59
DEPARTMENT OF THE NAVY	25,040	1,765	-	-	-	3,213	6,396	13,666	-
DEPARTMENT OF THE AIR FORCE	53,185	16,565	-	-	500	12,178	7,771	16,171	-
DEFENSE AGENCIES	24,483	-	-	-	-	6,624	172	16,190	1,497
DEPARTMENT OF ENERGY	83,911	-	-	1,861	-	687	735	80,219	409
DEPT OF HLTH & HUMAN SERVICES, TOTAL	14,901	-	-	-	-	-	-	-	14,901
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	82	-	-	-	-	-	-	-	82
NATIONAL INSTITUTES OF HEALTH	14,819	-	-	-	-	-	-	-	14,819
DEPARTMENT OF THE INTERIOR, TOTAL	7,781	-	-	200	400	616	500	5,020	1,045
BUREAU OF MINES	6,500	-	-	-	-	500	500	5,000	500
OFFICE OF WATER RSCH & TECHNOLOGY	1,175	-	-	200	400	10	-	20	545
WATER & POWER RESOURCES SVC	106	-	-	-	-	106	-	-	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	110,367	75,546	26,521	100	100	1,800	1,000	3,500	1,800
NATIONAL SCIENCE FOUNDATION	84,660	1,163	-	14,822	13,425	19,508	12,615	18,563	4,564

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-44. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	520,679	104,674	32,360	21,037	17,308	69,805	40,573	185,554	49,338
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	16,241	-	-	1,587	1,352	225	1,170	-	11,907
FOREST SERVICE	4,434	-	-	1,213	417	37	796	-	1,971
SCIENCE & EDUCATION ADMINISTRATION	11,807	-	-	374	935	188	374	-	9,936
AGRICULTURAL RESEARCH	9,731	-	-	374	935	188	374	-	7,860
COOPERATIVE RESEARCH	2,076	-	-	-	-	-	-	-	2,076
DEPARTMENT OF COMMERCE, TOTAL	2,924	-	-	-	1,066	445	450	551	412
MARITIME ADMINISTRATION	1,820	-	-	-	920	150	350	-	400
NATIONAL BUREAU OF STANDARDS	663	-	-	-	-	-	100	551	12
NAT'L OCEANIC & ATMOSPHERIC ADMIN	441	-	-	-	146	295	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	153,864	25,277	-	-	1,884	41,913	21,834	62,692	264
DEPARTMENT OF THE ARMY	31,085	3,172	-	-	884	14,592	4,758	7,613	66
DEPARTMENT OF THE NAVY	30,458	2,264	-	-	-	3,806	7,790	16,598	-
DEPARTMENT OF THE AIR FORCE	63,790	19,841	-	-	1,000	14,739	9,286	18,924	-
DEFENSE AGENCIES	28,531	-	-	-	-	8,776	-	19,557	198
DEPARTMENT OF ENERGY	97,645	-	-	2,181	-	1,067	1,538	92,011	848
DEPT OF HLTH & HUMAN SERVICES, TOTAL	15,634	-	-	-	-	-	-	-	15,634
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	86	-	-	-	-	-	-	-	86
NATIONAL INSTITUTES OF HEALTH	15,548	-	-	-	-	-	-	-	15,548
DEPARTMENT OF THE INTERIOR, TOTAL	8,075	-	-	200	400	610	500	5,320	1,045
BUREAU OF MINES	6,800	-	-	-	-	500	500	5,300	500
OFFICE OF WATER RSCH & TECHNOLOGY	1,175	-	-	200	400	10	-	20	545
WATER & POWER RESOURCES SVC	100	-	-	-	-	100	-	-	-
OTHER AGENCIES									
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	12,000	-	-	-	-	-	-	-	12,000
NATIONAL AERONAUTICS & SPACE ADMIN	119,242	78,182	32,360	100	100	1,900	1,100	3,600	1,900
NATIONAL SCIENCE FOUNDATION	95,054	1,215	-	16,969	12,506	23,645	13,981	21,410	5,328

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-45. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	96,111	53,866	40,882	1,363	129,538	12,488	32,676	4,135	18,258	61,981
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,137	1,137	-	-	20,335	-	18,241	-	1,830	264
ECON, STAT & COOPERATIVES SERVICE	64	64	-	-	6,326	-	5,687	-	383	256
FOREST SERVICE	628	628	-	-	1,382	-	628	-	754	-
SCIENCE & EDUCATION ADMINISTRATION	445	445	-	-	12,627	-	11,926	-	693	8
AGRICULTURAL RESEARCH	445	445	-	-	296	-	248	-	40	8
COOPERATIVE RESEARCH	-	-	-	-	12,331	-	11,678	-	653	-
DEPARTMENT OF COMMERCE, TOTAL	1,413	924	489	-	500	-	500	-	-	-
BUREAU OF THE CENSUS	472	472	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	500	-	500	-	-	-
NATIONAL BUREAU OF STANDARDS	300	200	100	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	641	252	389	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	35,671	16,855	17,758	1,058	1,778	-	-	-	1,744	34
DEPARTMENT OF THE ARMY	5,019	3,923	1,096	-	190	-	-	-	156	34
DEPARTMENT OF THE NAVY	9,605	5,079	4,407	119	1,588	-	-	-	1,588	-
DEPARTMENT OF THE AIR FORCE	9,266	7,853	1,413	-	-	-	-	-	-	-
DEFENSE AGENCIES	11,781	-	10,842	939	-	-	-	-	-	-
DEPARTMENT OF EDUCATION	-	-	-	-	20,567	-	-	-	-	20,567
DEPARTMENT OF ENERGY	8,634	5,612	3,022	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,663	3,398	-	265	28,347	288	2,189	343	9,740	15,787
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	265	-	-	265	9,253	288	147	147	7,677	994
NATIONAL INSTITUTES OF HEALTH	3,398	3,398	-	-	3,396	-	-	-	-	3,396
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	13,615	-	584	196	1,438	11,397
OFFICE OF THE SECRETARY	-	-	-	-	2,083	-	1,458	-	625	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,115	986	1,089	40	1,130	-	830	200	50	50
BUREAU OF MINES	900	900	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	860	86	774	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	315	-	315	-	630	-	630	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	40	-	-	40	500	-	200	200	50	50
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	6,800	-	100	325	1,500	4,875
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	6,800	-	100	325	1,500	4,875
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	2,274	-	911	-	36	1,327
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	1,774	-	411	-	36	1,327
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	500	-	500	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	45	-	-	-	-	45
DEPARTMENTAL FUNDS	-	-	-	-	45	-	-	-	-	45
DEPARTMENT OF THE TREASURY, TOTAL	-	-	-	-	220	-	-	-	-	220
INTERNAL REVENUE SERVICE	-	-	-	-	220	-	-	-	-	220
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	445	-	445	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,062	914	148	-	134	-	-	-	-	134
NATIONAL SCIENCE FOUNDATION	42,416	24,040	18,376	-	34,44[illegible]	6,659	9,460	3,267	3,358	11,696
SMITHSONIAN INSTITUTION	-	-	-	-	12,523	5,541	-	-	-	6,982

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-46. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	108,415	62,170	43,936	2,309	142,086	13,601	35,864	7,123	20,851	64,647
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,095	1,095	-	-	22,853	4	20,535	-	1,974	340
ECON, STAT & COOPERATIVES SERVICE	76	76	-	-	7,502	-	6,745	-	454	303
FOREST SERVICE	678	678	-	-	1,492	-	678	-	814	-
SCIENCE & EDUCATION ADMINISTRATION	341	341	-	-	13,859	4	13,112	-	706	37
AGRICULTURAL RESEARCH	341	341	-	-	512	4	471	-	-	37
COOPERATIVE RESEARCH	-	-	-	-	13,347	-	12,641	-	706	-
DEPARTMENT OF COMMERCE, TOTAL	1,974	1,079	895	-	300	-	300	-	-	-
BUREAU OF THE CENSUS	444	444	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	300	-	300	-	-	-
NATIONAL BUREAU OF STANDARDS	856	366	490	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	674	269	405	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	41,628	20,913	18,783	1,932	4,321	-	-	1,085	2,009	1,227
DEPARTMENT OF THE ARMY	6,392	5,099	1,293	-	159	-	-	-	146	13
DEPARTMENT OF THE NAVY	11,585	5,986	5,408	191	1,863	-	-	-	1,863	-
DEPARTMENT OF THE AIR FORCE	10,273	8,421	1,852	-	-	-	-	-	-	-
DEFENSE AGENCIES	13,378	1,407	10,230	1,741	2,299	-	-	1,085	-	1,214
DEPARTMENT OF EDUCATION	-	-	-	-	22,042	-	-	-	-	22,042
DEPARTMENT OF ENERGY	10,300	6,695	3,605	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,070	3,783	-	287	28,724	347	2,070	434	10,222	15,651
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	287	-	-	287	9,946	347	166	166	8,220	1,047
NATIONAL INSTITUTES OF HEALTH	3,783	3,783	-	-	3,626	-	-	-	-	3,626
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	13,352	-	644	268	1,462	10,978
OFFICE OF THE SECRETARY	-	-	-	-	1,800	-	1,260	-	540	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,289	1,089	1,160	40	1,212	-	912	200	50	50
BUREAU OF MINES	1,000	1,000	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	894	89	805	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	355	-	355	-	712	-	712	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	40	-	-	40	500	-	200	200	50	50
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	6,975	-	100	1,000	2,100	3,775
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	6,975	-	100	1,000	2,100	3,775
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	3,211	-	925	-	67	2,219
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	2,711	-	425	-	67	2,219
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	500	-	500	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	125	125	-	-	1,675	-	-	-	25	1,650
INTERNAL REVENUE SERVICE	125	125	-	-	1,675	-	-	-	25	1,650
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	345	-	345	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,100	950	150	-	150	-	-	-	-	150
NATIONAL SCIENCE FOUNDATION	45,834	26,441	19,343	50	36,460	7,235	10,677	4,404	4,404	9,740
SMITHSONIAN INSTITUTION	-	-	-	-	13,818	6,015	-	-	-	7,803

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-47. FEDERAL OBLIGATIONS FOR BASIC RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	129,908	71,416	55,396	3,096	154,864	14,800	37,150	8,892	23,969	73,053
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	1,212	1,212	-	-	23,642	5	21,171	-	2,105	361
ECON, STAT & COOPERATIVES SERVICE	80	80	-	-	7,948	-	7,145	-	482	321
FOREST SERVICE	758	758	-	-	1,668	-	758	-	910	-
SCIENCE & EDUCATION ADMINISTRATION	374	374	-	-	14,026	5	13,268	-	713	40
AGRICULTURAL RESEARCH	374	374	-	-	562	5	517	-	-	40
COOPERATIVE RESEARCH	-	-	-	-	13,464	-	12,751	-	713	-
DEPARTMENT OF COMMERCE, TOTAL	2,296	1,114	1,182	-	300	-	300	-	-	-
BUREAU OF THE CENSUS	453	453	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	300	-	300	-	-	-
NATIONAL BUREAU OF STANDARDS	1,109	367	742	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	734	294	440	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	52,994	24,957	25,348	2,689	5,801	-	-	2,255	2,543	1,003
DEPARTMENT OF THE ARMY	9,622	7,719	1,903	-	168	-	-	-	154	14
DEPARTMENT OF THE NAVY	14,706	7,581	6,918	207	2,389	-	-	-	2,389	-
DEPARTMENT OF THE AIR FORCE	9,768	7,643	2,125	-	-	-	-	-	-	-
DEFENSE AGENCIES	18,898	2,014	14,402	2,482	3,244	-	-	2,255	-	989
DEPARTMENT OF EDUCATION	-	-	-	-	26,170	-	-	-	-	26,170
DEPARTMENT OF ENERGY	12,120	7,272	4,848	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,287	3,970	-	317	32,287	382	2,527	564	11,646	17,168
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	317	-	-	317	11,211	382	188	188	9,283	1,170
NATIONAL INSTITUTES OF HEALTH	3,970	3,970	-	-	3,804	-	-	-	-	3,804
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	15,072	-	799	376	1,703	12,194
OFFICE OF THE SECRETARY	-	-	-	-	2,200	-	1,540	-	660	-
DEPARTMENT OF THE INTERIOR, TOTAL	2,596	1,300	1,256	40	1,214	-	914	200	50	50
BUREAU OF MINES	1,200	1,200	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	999	100	899	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	357	-	357	-	714	-	714	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	40	-	-	40	500	-	200	200	50	50
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	6,375	-	200	1,000	2,600	2,575
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	6,375	-	200	1,000	2,600	2,575
DEPARTMENT OF LABOR, TOTAL	-	-	-	-	2,745	-	849	-	52	1,844
EMPLOYMENT & TRAINING ADMIN	-	-	-	-	2,245	-	349	-	52	1,844
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	500	-	500	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	150	150	-	-	1,800	-	-	-	100	1,700
INTERNAL REVENUE SERVICE	150	150	-	-	1,800	-	-	-	100	1,700
OTHER AGENCIES										
FEDERAL TRADE COMMISSION	-	-	-	-	293	-	293	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,150	1,000	150	-	160	-	-	-	-	160
NATIONAL SCIENCE FOUNDATION	53,163	30,441	22,612	50	38,436	7,952	10,896	4,673	4,873	9,842
SMITHSONIAN INSTITUTION	-	-	-	-	15,641	6,461	-	-	-	9,180

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-48. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	6,575,859	2,424,665	1,660,488	178,338	1,274,749	406,994	386,376	66,652	119,703	57,889
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	375,500	257,549	2,266	-	114,133	-	179	-	699	674
AGRICULTURAL MARKETING SERVICE	445	345	75	-	25	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	29,110	28,326	-	-	784	-	-	-	-	-
FOREST SERVICE	71,100	67,023	166	-	3,542	-	107	-	217	45
SCIENCE & EDUCATION ADMINISTRATION	274,845	161,855	2,025	-	109,782	-	72	-	482	629
AGRICULTURAL RESEARCH	172,748	158,317	2,025	-	11,593	-	72	-	112	629
COOPERATIVE RESEARCH	102,097	3,538	-	-	98,189	-	-	-	370	-
DEPARTMENT OF COMMERCE, TOTAL	194,707	140,264	14,423	-	26,396	270	4,195	-	8,864	295
BUREAU OF THE CENSUS	1,224	1,224	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	8,000	993	1,776	-	955	-	2,455	-	1,821	-
MARITIME ADMINISTRATION	10,161	1,772	7,710	-	481	-	100	-	-	98
NATIONAL BUREAU OF STANDARDS	43,000	42,296	336	-	368	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	129,840	91,577	4,601	-	24,592	270	1,640	-	7,043	117
NAT'L TELECOMM & INFO ADMIN	2,400	2,400	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	82	2	-	-	-	-	-	-	-	80
DEPARTMENT OF DEFENSE, TOTAL	1,788,310	698,820	861,033	2,155	114,833	55,914	37,250	13,166	33	5,106
DEPARTMENT OF THE ARMY	402,730	286,099	85,826	-	15,635	1,729	11,167	440	33	1,801
DEPARTMENT OF THE NAVY	285,100	177,353	50,717	-	37,478	16,721	1,496	1,020	-	315
DEPARTMENT OF THE AIR FORCE	653,900	153,174	424,407	-	48,086	19,700	5,954	-	-	2,579
DEFENSE AGENCIES	446,580	82,194	300,083	2,155	13,634	17,764	18,633	11,706	-	411
DEPARTMENT OF EDUCATION	72,825	5,748	1,922	-	38,180	-	21,570	280	4,157	968
DEPARTMENT OF ENERGY	668,878	48,495	66,291	76,465	106,539	299,225	31,307	38,670	471	1,415
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,439,658	359,016	93,197	11,659	685,759	2,787	222,549	946	47,584	16,161
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	118,913	20,636	4,420	-	67,870	-	22,628	-	2,636	723
CENTER FOR DISEASE CONTROL	76,271	55,964	6,251	-	6,670	-	5,021	-	143	2,222
FOOD & DRUG ADMINISTRATION	60,979	44,068	3,770	-	8,493	-	4,531	-	117	-
HEALTH CARE FINANCING ADMIN	31,828	3,682	10,273	-	4,968	-	90	-	12,815	-
HEALTH RESOURCES ADMINISTRATION	4,944	150	-	-	4,794	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	8,213	3,052	-	-	3,497	-	822	-	81	761
NATIONAL INSTITUTES OF HEACTH	1,066,408	206,515	63,485	11,659	576,155	2,787	173,401	946	19,604	11,856
OFFICE OF ASST'T SECY FOR HEALTH	16,279	4,863	1,890	-	6,900	-	2,019	-	61	546
OFF OF HUMAN DEVELOPMENT SVCS	14,863	1,472	610	-	4,890	-	5,760	-	2,128	3
OFFICE OF THE SECRETARY	22,632	3,274	1,355	-	540	-	8,154	-	9,309	-
SOCIAL SECURITY ADMINISTRATION	18,328	15,340	1,143	-	982	-	123	-	690	50
DEPT OF HOUSING & URBAN DEV	23,770	14,680	3,400	-	1,864	-	3,737	-	89	-
DEPARTMENT OF THE INTERIOR, TOTAL	266,946	156,890	39,290	-	28,783	220	1,630	113	40,020	-
BUREAU OF LAND MANAGEMENT	1,121	580	-	-	541	-	-	-	-	-
BUREAU OF MINES	65,400	28,000	34,000	-	2,150	150	1,000	100	-	-
GEOLOGICAL SURVEY	96,062	88,599	833	-	6,617	-	-	-	13	-
NATIONAL PARK SERVICE	8,944	5,898	95	-	2,926	-	25	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	4,978	1,434	160	-	2,868	-	516	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	13,200	1,310	2,073	-	9,817	-	-	-	-	-
US FISH & WILDLIFE SERVICE	65,941	25,890	77	-	1,064	70	89	13	38,738	-
WATER & POWER RESOURCES SVC	11,300	5,179	2,052	-	2,800	-	-	-	1,269	-
DEPARTMENT OF JUSTICE, TOTAL	20,946	2,253	1,023	-	3,685	-	13,512	-	473	-
DRUG ENFORCEMENT ADMIN	700	100	600	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	498	4	-	-	198	-	198	-	98	-
IMMIGRATION & NATURALIZATION SVC	100	18	82	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,648	18	341	-	868	-	421	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	18,000	2,113	-	-	2,619	-	12,893	-	375	-
DEPARTMENT OF LABOR, TOTAL	39,796	14,908	17,264	-	3,836	35	3,486	-	267	-
BUREAU OF LABOR STATISTICS	912	855	57	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	5,338	3,455	249	-	294	10	1,330	-	-	-
EMPLOYMENT & TRAINING ADMIN	24,156	7,602	11,479	-	2,827	-	1,981	-	267	-
LABOR-MANAGEMENT SERVICES ADMIN	2,683	1,225	583	-	700	-	175	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,107	406	4,701	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,600	1,365	195	-	15	25	-	-	-	-
DEPARTMENT OF STATE, TOTAL	2,649	892	1,004	-	256	-	428	69	-	-
DEPARTMENTAL FUNDS	2,649	892	1,004	-	256	-	428	69	-	-

CONTINUED ON NEXT PAGE

TABLE C-48. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	66,983	21,721	34,269	-	3,700	-	2,609	-	4,684	-
COAST GUARD	10,900	3,000	7,700	-	200	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,300	1,650	5,850	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,400	1,210	1,793	-	-	-	1,259	-	138	-
FEDERAL RAILROAD ADMINISTRATION	7,500	5,840	1,660	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	30,003	6,306	16,801	-	1,500	-	1,350	-	4,046	-
OFFICE OF THE SECRETARY	580	215	365	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,000	2,900	100	-	2,000	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	600	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	4,498	2,117	2,017	-	25	28	-	311	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	655	60	231	-	25	28	-	311	-	-
BUREAU OF ENGRAVING AND PRINTING ...	593	577	16	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,250	1,480	1,770	-	-	-	-	-	-	
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,696	1,696	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	650	50	348	-	-	-	122	-	130	-
CIVIL AERONAUTICS BOARD	631	631	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,813	20	-	-	-	-	1,793	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,800	882	882	-	36	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	248,900	114,990	61,730	-	43,750	-	14,500	1,350	10,280	2,300
FEDERAL COMMUNICATIONS COMMISSION	2,900	1,397	1,503	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	6,705	1,782	2,050	-	422	-	1,852	125	474	-
FEDERAL HOME LOAN BANK BOARD	863	863	-	-	-	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,076	1,076	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	144	1	111	-	-	-	32	-	-	-
INTERNAT'L COMMUNICATION AGENCY	77	62	15	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	66,886	6,458	1,344	-	28,322	-	1,195	207	-	29,360
AGENCY FOR INTERNAT'L DEVELOPMENT ..	66,886	6,458	1,344	-	28,322	-	1,195	207	-	29,360
INTERSTATE COMMERCE COMMISSION	150	150	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	500	500	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	938,389	440,255	439,141	-	28,511	23,381	6,219	58	89	735
NATIONAL SCIENCE FOUNDATION	66,770	6,118	10,001	-	38,084	242	10,985	-	1,096	244
NUCLEAR REGULATORY COMMISSION	148,772	9,679	4,340	88,059	6,809	24,696	2,963	11,297	298	631
OFFICE OF PERSONNEL MANAGEMENT	1,354	1,354	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	12,351	8,212	-	-	200	-	3,939	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,710	460	1,624	-	196	196	174	60	-	-
US INTERNAT'L TRADE COMMISSION	3,417	3,417	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	101,839	101,259	-	-	430	-	150	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-49. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	7,294,523	2,616,147	1,931,335	238,499	1,378,583	438,229	403,903	77,642	146,963	63,222
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	409,451	282,585	3,348	-	121,878	-	200	-	796	644
AGRICULTURAL MARKETING SERVICE	619	519	75	-	25	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	34,522	33,702	-	-	820	-	-	-	-	-
FOREST SERVICE	72,700	69,172	170	-	3,000	-	90	-	222	46
SCIENCE & EDUCATION ADMINISTRATION	301,610	179,192	3,103	-	118,033	-	110	-	574	598
AGRICULTURAL RESEARCH	191,575	175,052	3,103	-	12,540	-	110	-	172	598
COOPERATIVE RESEARCH	110,035	4,140	-	-	105,493	-	-	-	402	-
DEPARTMENT OF COMMERCE, TOTAL	215,570	156,993	15,478	-	33,316	300	1,905	-	7,060	518
BUREAU OF THE CENSUS	1,098	1,098	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	2,200	216	384	-	1,000	-	540	-	60	-
MARITIME ADMINISTRATION	10,074	1,700	8,174	-	200	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	46,888	46,163	350	-	375	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	146,406	99,314	6,570	-	31,741	300	1,365	-	7,000	116
NAT'L TELECOMM & INFO ADMIN	8,500	8,500	-	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	404	2	-	-	-	-	-	-	-	402
DEPARTMENT OF DEFENSE, TOTAL	2,004,174	739,556	1,031,160	3,424	117,874	54,898	35,743	16,463	50	5,006
DEPARTMENT OF THE ARMY	460,125	307,064	123,612	-	15,065	1,590	10,159	880	50	1,705
DEPARTMENT OF THE NAVY	329,000	188,410	87,891	-	38,274	11,730	1,390	980	-	325
DEPARTMENT OF THE AIR FORCE	698,300	156,037	461,913	-	52,045	19,100	6,444	-	-	2,761
DEFENSE AGENCIES	516,749	88,045	357,744	3,424	12,490	22,478	17,750	14,603	-	215
DEPARTMENT OF EDUCATION	67,420	5,836	1,430	-	36,317	-	16,598	-	3,985	3,254
DEPARTMENT OF ENERGY	749,387	54,752	81,824	91,425	110,591	320,678	39,379	48,485	747	1,506
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,583,929	391,121	106,567	17,338	751,514	3,036	236,725	852	61,095	15,681
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	132,699	24,281	5,928	-	74,928	-	23,713	-	2,914	935
CENTER FOR DISEASE CONTROL	94,480	68,015	8,182	-	7,400	-	7,962	-	273	2,648
FOOD & DRUG ADMINISTRATION	64,159	47,043	3,821	-	8,493	-	4,682	-	120	-
HEALTH CARE FINANCING ADMIN	46,782	5,740	14,988	-	7,242	-	131	-	18,681	-
HEALTH RESOURCES ADMINISTRATION	265	8	-	-	257	-	-	-	-	-
HEALTH SERVICES ADMINISTRATION	5,530	2,020	-	-	2,775	-	669	-	66	-
NATIONAL INSTITUTES OF HEALTH	1,164,305	215,241	68,847	17,338	638,297	3,036	183,129	852	26,101	11,464
OFFICE OF ASST'T SECY FOR HEALTH	15,276	4,710	1,808	-	6,134	-	1,931	-	59	634
OFF OF HUMAN DEVELOPMENT SVCS	15,449	1,724	576	-	4,569	-	5,760	-	2,820	-
OFFICE OF THE SECRETARY	22,200	3,200	1,050	-	280	-	8,520	-	9,150	-
SOCIAL SECURITY ADMINISTRATION	22,784	19,139	1,367	-	1,139	-	228	-	911	-
DEPT OF HOUSING & URBAN DEV	23,370	13,408	3,900	-	2,015	-	3,847	-	200	-
DEPARTMENT OF THE INTERIOR, TOTAL	286,585	160,274	44,639	-	32,547	155	1,096	10	47,864	-
BUREAU OF LAND MANAGEMENT	1,323	584	-	-	739	-	-	-	-	-
BUREAU OF MINES	65,100	27,800	33,900	-	2,300	100	1,000	-	-	-
GEOLOGICAL SURVEY	103,739	94,612	3,314	-	5,813	-	-	-	-	-
NATIONAL PARK SERVICE	8,985	5,934	71	-	2,955	-	25	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,300	250	860	-	6,190	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	14,700	600	4,000	-	10,000	-	-	-	100	-
US FISH & WILDLIFE SERVICE	72,638	24,564	260	-	1,550	55	71	10	46,128	-
WATER & POWER RESOURCES SVC	12,800	5,930	2,234	-	3,000	-	-	-	1,636	-
DEPARTMENT OF JUSTICE, TOTAL	22,900	2,870	1,700	-	4,458	-	13,217	-	655	-
DRUG ENFORCEMENT ADMIN	1,400	500	900	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	650	5	-	-	112	-	403	-	130	-
IMMIGRATION & NATURALIZATION SVC	400	200	200	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,250	15	600	-	455	-	180	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	19,200	2,150	-	-	3,891	-	12,634	-	525	-
DEPARTMENT OF LABOR, TOTAL	41,949	19,309	15,181	-	4,222	10	2,969	-	258	-
BUREAU OF LABOR STATISTICS	925	860	65	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	6,348	5,788	250	-	300	10	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	23,841	9,911	7,696	-	3,207	-	2,769	-	258	-
LABOR-MANAGEMENT SERVICES ADMIN	2,689	1,139	675	-	700	-	175	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	246	6,300	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,600	1,365	195	-	15	-	25	-	-	-
DEPARTMENT OF STATE, TOTAL	2,366	665	850	60	375	40	320	56	-	-
DEPARTMENTAL FUNDS	2,366	665	850	60	375	40	320	56	-	-

CONTINUED ON NEXT PAGE

TABLE C-49. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
DEPARTMENT OF TRANSPORTATION, TOTAL ..	70,352	22,883	35,651	-	3,866	-	2,633	-	5,319	-
COAST GUARD	10,100	3,500	6,400	-	200	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	7,700	1,694	6,006	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,100	1,300	2,350	-	-	-	1,300	-	150	-
FEDERAL RAILROAD ADMINISTRATION	7,900	6,085	1,815	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	33,332	6,999	18,665	-	1,666	-	1,333	-	4,669	-
OFFICE OF THE SECRETARY	620	205	415	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,500	2,500	-	-	2,000	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	600	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	3,072	2,351	614	-	40	26	10	31	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	80	169	-	40	26	-	31	-	-
BUREAU OF ENGRAVING AND PRINTING ...	829	804	25	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	1,797	1,367	420	-	-	-	10	-		
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,717	1,717	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	350	-	-	-	-	-	200	-
CIVIL AERONAUTICS BOARD	653	653	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,000	20	-	-	-	-	980	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,600	672	848	-	80	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	245,000	100,820	65,340	-	44,250	-	18,550	-	14,240	1,800
FEDERAL COMMUNICATIONS COMMISSION	3,930	1,978	1,952	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	6,688	1,567	2,194	-	379	50	1,922	105	471	-
FEDERAL HOME LOAN BANK BOARD	1,211	1,127	-	-	84	-	-	-	-	-
FEDERAL TRADE COMMISSION	998	998	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	117	1	79	-	-	-	37	-	-	-
INTERNAT'L COMMUNICATION AGENCY	179	102	77	-	-	-	-	-	-	
INTERNAT'L DEV COOPERATION AGENCY	74,632	6,108	2,263	-	30,459	-	2,155	525	-	33,122
AGENCY FOR INTERNAT'L DEVELOPMENT ..	31,265	5,228	2,263	-	16,222	-	2,155	525	-	4,872
INST FOR SCIEN & TECH COOPERATION ..	43,367	880	-	-	14,237	-	-	-	-	28,250
INTERSTATE COMMERCE COMMISSION	161	161	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	600	600	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,076,835	507,854	496,911	-	33,000	30,780	7,538	53	90	609
NATIONAL SCIENCE FOUNDATION	74,470	5,925	8,836	-	43,799	167	11,702	-	3,691	350
NUCLEAR REGULATORY COMMISSION	196,325	13,275	9,018	126,052	6,514	27,889	1,696	11,007	242	632
OFFICE OF PERSONNEL MANAGEMENT	1,844	1,669	25	-	125	-	25	-	-	-
TENNESSEE VALLEY AUTHORITY	17,806	13,180	-	-	200	-	4,426	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,730	520	1,100	200	355	200	200	55	-	100
US INTERNAT'L TRADE COMMISSION	2,679	2,679	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	102,223	101,868	-	-	325	-	30	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-50. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	8,006,436	2,805,280	2,228,919	261,204	1,468,066	507,004	422,792	87,828	154,061	71,292
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	418,767	287,926	4,736	-	121,686	-	259	-	920	3,240
AGRICULTURAL MARKETING SERVICE	614	514	75	-	25	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	36,572	35,752	-	-	820	-	-	-	-	-
FOREST SERVICE	80,500	76,179	190	-	3,731	-	101	-	248	51
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	2,852	250	-	-	-	-	-	-	-	2,602
SCIENCE & EDUCATION ADMINISTRATION	298,229	175,231	4,471	-	117,110	-	158	-	672	587
AGRICULTURAL RESEARCH	189,158	171,038	4,471	-	12,656	-	158	-	248	587
COOPERATIVE RESEARCH	109,071	4,193	-	-	104,454	-	-	-	424	-
DEPARTMENT OF COMMERCE, TOTAL	237,481	169,500	15,419	-	41,451	350	2,168	-	8,510	83
BUREAU OF THE CENSUS	1,119	1,119	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	2,200	216	384	-	1,000	-	540	-	60	-
MARITIME ADMINISTRATION	8,595	1,700	6,695	-	200	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	47,788	47,063	350	-	375	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	168,596	110,219	7,990	-	39,876	350	1,628	-	8,450	83
NAT'L TELECOMM & INFO ADMIN	9,183	9,183	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,444,889	873,988	1,309,830	650	131,122	69,516	36,450	17,573	50	5,710
DEPARTMENT OF THE ARMY	605,405	382,553	188,195	-	18,974	-	12,911	996	50	1,726
DEPARTMENT OF THE NAVY	404,300	244,293	100,920	-	40,964	15,538	1,195	1,040	-	350
DEPARTMENT OF THE AIR FORCE	771,800	166,052	515,726	-	58,139	21,600	7,198	-	-	3,085
DEFENSE AGENCIES	663,384	81,090	504,989	650	13,045	32,378	15,146	15,537	-	549
DEPARTMENT OF EDUCATION	74,043	6,493	1,840	-	39,479	-	19,282	700	3,999	2,250
DEPARTMENT OF ENERGY	843,139	48,704	93,606	99,074	126,748	377,620	41,919	52,898	655	1,915
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,642,998	400,426	108,714	18,195	788,097	4,437	243,828	872	61,331	17,098
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	148,865	25,720	6,981	-	83,902	-	27,636	-	3,544	1,082
CENTER FOR DISEASE CONTROL	97,169	69,234	8,513	-	8,700	-	8,284	-	284	2,154
FOOD & DRUG ADMINISTRATION	66,212	48,419	3,993	-	8,363	-	5,319	-	118	-
HEALTH CARE FINANCING ADMIN	52,357	6,424	16,774	-	8,105	-	147	-	20,907	-
HEALTH SERVICES ADMINISTRATION	4,922	2,229	-	-	2,129	-	513	-	51	-
NATIONAL INSTITUTES OF HEALTH	1,198,925	220,002	67,337	18,195	662,922	4,437	185,563	872	26,241	13,356
OFFICE OF ASST'T SECY FOR HEALTH	17,337	4,826	1,892	-	8,027	-	2,023	-	63	506
OFF OF HUMAN DEVELOPMENT SVCS	12,024	1,527	470	-	3,380	-	4,459	-	2,188	-
OFFICE OF THE SECRETARY	21,800	2,400	1,350	-	1,400	-	9,650	-	7,000	-
SOCIAL SECURITY ADMINISTRATION	23,387	19,645	1,404	-	1,169	-	234	-	935	-
DEPT OF HOUSING & URBAN DEV	25,776	11,602	6,755	-	1,945	-	4,898	-	576	-
DEPARTMENT OF THE INTERIOR, TOTAL	288,992	160,095	37,995	275	36,568	161	1,102	176	52,620	-
BUREAU OF LAND MANAGEMENT	1,308	523	-	-	785	-	-	-	-	-
BUREAU OF MINES	61,600	26,200	31,800	-	2,500	100	1,000	-	-	-
GEOLOGICAL SURVEY	101,282	93,766	1,136	-	6,380	-	-	-	-	-
NATIONAL PARK SERVICE	11,295	7,633	19	-	3,618	-	25	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,260	375	505	275	5,830	-	-	165	110	-
OFFICE OF WATER RSCH & TECHNOLOGY	15,400	600	2,000	-	12,700	-	-	-	100	-
US FISH & WILDLIFE SERVICE	78,547	25,842	266	-	1,655	61	77	11	50,635	-
WATER & POWER RESOURCES SVC	12,300	5,156	2,269	-	3,100	-	-	-	1,775	-
DEPARTMENT OF JUSTICE, TOTAL	21,941	2,272	1,427	-	4,295	-	13,308	-	639	-
DRUG ENFORCEMENT ADMIN	1,100	400	700	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	798	6	-	-	210	-	343	-	239	-
IMMIGRATION & NATURALIZATION SVC	200	100	100	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	1,643	16	627	-	500	-	500	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	18,200	1,750	-	-	3,585	-	12,465	-	400	-
DEPARTMENT OF LABOR, TOTAL	48,937	19,713	22,292	-	3,982	-	2,758	-	192	-
BUREAU OF LABOR STATISTICS	1,117	1,052	65	-	-	-	-	-	-	-
EMPLOYMENT STANDARDS ADMIN	6,483	6,483	-	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	26,480	9,131	11,332	-	3,267	-	2,558	-	192	-
LABOR-MANAGEMENT SERVICES ADMIN	2,757	1,182	700	-	700	-	175	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	10,300	300	10,000	-	-	-	-	-	-	-
OFFICE OF THE SECRETARY	1,800	1,565	195	-	15	-	25	-	-	-
DEPARTMENT OF STATE, TOTAL	2,269	660	850	60	283	40	320	56	-	-
DEPARTMENTAL FUNDS	2,269	660	850	60	283	40	320	56	-	-

CONTINUED ON NEXT PAGE

TABLE C-59. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	84,100	23,507	47,437	-	4,145	-	3,195	-	5,816	-
COAST GUARD	15,800	2,000	13,500	-	300	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	12,200	2,684	9,516	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,800	1,300	2,000	-	-	-	1,350	-	150	-
FEDERAL RAILROAD ADMINISTRATION	7,800	6,074	1,726	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	36,900	7,749	20,295	-	1,845	-	1,845	-	5,166	-
OFFICE OF THE SECRETARY	600	200	400	-	-	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,800	2,800	-	-	2,000	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	1,200	700	-	-	-	-	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	3,206	2,341	786	-	10	8	40	21	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	160	65	56	-	10	8	-	21	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,006	976	30	-	-	-	-	-	-	-
CUSTOMS SERVICE	100	100	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	1,940	1,200	700	-	-	-	40	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,836	1,836	-	-	-	-	-	-	-	-
APPALACHIAN REGIONAL COMMISSION	600	50	250	-	-	-	100	-	200	-
CIVIL AERONAUTICS BOARD	572	572	-	-	-	-	-	-	-	-
COMMUNITY SERVICES ADMINISTRATION	1,000	20	-	-	-	-	980	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3,100	300	2,700	-	100	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	266,700	113,350	68,930	-	43,750	-	21,470	2,500	13,700	3,000
FEDERAL COMMUNICATIONS COMMISSION	3,318	2,219	1,099	-	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,097	1,807	3,157	-	476	50	2,765	154	688	-
FEDERAL HOME LOAN BANK BOARD	1,342	1,204	-	-	138	-	-	-	-	-
FEDERAL TRADE COMMISSION	1,221	1,221	-	-	-	-	-	-	-	-
GENERAL SERVICES ADMINISTRATION	292	2	253	-	-	-	37	-	-	-
INTERNAT'L COMMUNICATION AGENCY	60	60	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	90,037	6,354	5,234	-	39,246	-	2,610	350	-	36,243
AGENCY FOR INTERNAT'L DEVELOPMENT ..	46,857	5,454	5,234	-	27,006	-	2,610	350	-	6,203
INST FOR SCIEN & TECH COOPERATION ..	43,180	900	-	-	12,240	-	-	-	-	30,040
INTERSTATE COMMERCE COMMISSION	240	240	-	-	-	-	-	-	-	-
LIBRARY OF CONGRESS	400	400	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,056,175	518,891	466,737	-	34,000	28,403	7,393	53	90	608
NATIONAL SCIENCE FOUNDATION	77,450	5,778	13,877	-	42,336	182	11,112	-	3,915	250
NUCLEAR REGULATORY COMMISSION	217,928	14,660	13,187	142,850	6,639	25,987	1,335	12,325	160	785
OFFICE OF PERSONNEL MANAGEMENT	2,694	1,634	260	-	670	-	130	-	-	-
TENNESSEE VALLEY AUTHORITY	23,368	18,210	-	-	200	-	4,958	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	3,273	500	1,548	100	400	250	225	150	-	100
US INTERNAT'L TRADE COMMISSION	4,059	4,059	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	105,136	104,686	-	-	300	-	150	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-51. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1979	ESTIMATES	
		1980	1981
TOTAL, ALL FIELDS	6,575,859	7,294,523	8,006,436
LIFE SCIENCES, TOTAL	1,979,826	2,151,210	2,255,985
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	661,026	705,437	733,029
ENVIRONMENTAL BIOLOGY	126,006	122,972	131,999
AGRICULTURAL	268,557	289,968	312,713
MEDICAL	828,984	930,135	963,560
LIFE SCIENCES, NEC	95,253	102,698	114,694
PSYCHOLOGY, TOTAL	131,157	144,188	162,551
BIOLOGICAL ASPECTS	30,500	31,420	32,395
SOCIAL ASPECTS	58,097	62,991	79,300
PSYCHOLOGICAL SCIENCES, NEC	42,560	49,777	50,856
PHYSICAL SCIENCES, TOTAL	800,025	857,650	1,035,885
ASTRONOMY	3,786	5,821	5,461
CHEMISTRY	232,293	242,942	257,452
PHYSICS	532,048	561,430	712,470
PHYSICAL SCIENCES, NEC	31,898	47,457	60,502
ENVIRONMENTAL SCIENCES, TOTAL	640,103	740,720	798,043
ATMOSPHERIC	174,688	233,135	239,209
GEOLOGICAL	202,026	203,761	234,269
OCEANOGRAPHY	100,340	120,422	118,381
ENVIRONMENTAL SCIENCES, NEC	163,049	183,402	205,684
MATHEMATICS & COMPUTER SCIENCES, TOTAL	161,190	173,928	223,437
MATHEMATICS	27,268	27,825	32,753
COMPUTER SCIENCES	92,417	101,543	134,034
MATHEMATICS & COMPUTER SCIENCES, NEC	41,505	44,560	56,650
ENGINEERING, TOTAL	2,227,792	2,519,781	2,725,119
AERONAUTICAL	571,290	638,264	632,289
ASTRONAUTICAL	236,471	269,805	284,633
CHEMICAL	106,845	110,107	135,740
CIVIL	112,997	117,004	131,445
ELECTRICAL	409,254	463,542	549,853
MECHANICAL	203,041	233,837	227,700
METALLURGY & MATERIALS	107,536	120,135	133,463
ENGINEERING, NEC	480,358	567,087	629,996
SOCIAL SCIENCES, TOTAL	398,335	418,083	446,865
ANTHROPOLOGY	4,855	5,221	6,197
ECONOMICS	149,870	156,573	174,502
POLITICAL SCIENCE	9,781	8,937	10,096
SOCIOLOGY	46,217	47,242	48,058
SOCIAL SCIENCES, NEC	187,612	200,110	208,012
OTHER SCIENCES, NEC	237,431	288,963	358,551

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	6,575,659	1,979,826	131,157	800,025	640,103	161,190	2,227,792	398,335	237,431
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	375,500	242,658	71	26,870	9,425	2,935	32,173	61,368	-
AGRICULTURAL MARKETING SERVICE	445	445	-	-	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	29,110	-	-	-	-	873	-	28,237	-
FOREST SERVICE	71,100	44,224	71	2,417	7,750	853	8,461	7,324	-
SCIENCE & EDUCATION ADMINISTRATION	274,845	197,989	-	24,453	1,675	1,209	23,712	25,807	-
AGRICULTURAL RESEARCH	172,748	127,834	-	19,348	1,036	1,209	20,212	3,109	-
COOPERATIVE RESEARCH	102,097	70,155	-	5,105	639	-	3,500	22,699	-
DEPARTMENT OF COMMERCE, TOTAL	194,737	53,899	104	26,588	68,813	5,178	29,270	10,743	112
BUREAU OF THE CENSUS	1,224	-	104	-	-	784	-	308	28
ECONOMIC DEVELOPMENT ADMIN	8,000	-	-	-	-	-	-	8,000	-
MARITIME ADMINISTRATION	10,161	-	-	-	-	440	9,133	588	-
NATIONAL BUREAU OF STANDARDS	43,000	-	-	21,895	310	3,283	15,805	1,707	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	129,840	53,899	-	4,641	68,473	671	1,932	140	84
NAT'L TELECOMM & INFO ADMIN	2,400	-	-	-	-	-	2,400	-	-
OFFICE OF THE SECRETARY	82	-	-	52	30	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,788,310	114,408	49,112	295,525	82,289	124,752	1,001,170	6,596	114,458
DEPARTMENT OF THE ARMY	402,730	56,324	19,213	80,550	20,276	31,292	190,850	756	3,469
DEPARTMENT OF THE NAVY	285,100	9,818	7,643	62,606	17,088	30,627	157,318	-	-
DEPARTMENT OF THE AIR FORCE	653,900	39,300	20,300	96,043	11,330	36,664	449,664	-	599
DEFENSE AGENCIES	446,580	8,966	1,956	56,326	33,595	26,169	203,338	5,840	110,390
DEPARTMENT OF EDUCATION	72,825	14,846	1,916	-	-	-	5,897	40,817	9,349
DEPARTMENT OF ENERGY	668,878	110,629	-	317,745	96,370	599	129,107	2,906	11,522
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,439,658	1,092,958	64,601	29,064	-	3,944	28,203	140,393	80,495
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	118,913	58,043	38,045	224	-	584	136	20,378	1,503
CENTER FOR DISEASE CONTROL	76,271	76,271	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	60,979	60,979	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	31,828	-	-	-	-	-	-	31,828	-
HEALTH RESOURCES ADMINISTRATION	4,944	-	-	-	-	-	-	4,944	-
HEALTH SERVICES ADMINISTRATION	8,213	7,913	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	1,066,408	889,752	26,556	28,840	-	3,360	28,067	11,141	78,692
OFFICE OF ASST'T SECY FOR HEALTH	16,279	-	-	-	-	-	-	16,279	-
OFF OF HUMAN DEVELOPMENT SVCS	14,863	-	-	-	-	-	-	14,863	-
OFFICE OF THE SECRETARY	22,632	-	-	-	-	-	-	22,632	-
SOCIAL SECURITY ADMINISTRATION	18,328	-	-	-	-	-	-	18,328	-
DEPT OF HOUSING & URBAN DEV	23,770	-	-	-	-	-	3,507	20,263	-
DEPARTMENT OF THE INTERIOR, TOTAL	266,946	75,960	414	6,553	109,933	5,478	62,809	4,960	819
BUREAU OF LAND MANAGEMENT	1,121	889	-	-	160	-	-	72	-
BUREAU OF MINES	65,400	-	-	800	9,700	4,000	50,900	-	-
GEOLOGICAL SURVEY	96,062	-	-	4,011	84,836	1,317	5,818	80	-
NATIONAL PARK SERVICE	8,944	4,840	14	-	1,477	6	-	2,598	9
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	4,978	656	-	707	1,330	35	2,105	145	-
OFFICE OF WATER RSCH & TECHNOLOGY	13,200	3,266	400	1,035	3,525	120	2,160	1,950	750
US FISH & WILDLIFE SERVICE	65,941	65,941	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	11,300	374	-	-	8,905	-	1,826	135	60
DEPARTMENT OF JUSTICE, TOTAL	20,946	650	1,500	-	-	100	600	18,096	-
DRUG ENFORCEMENT ADMIN	700	-	100	-	-	100	500	-	-
FEDERAL PRISON SYSTEM	498	-	-	-	-	-	-	498	-
IMMIGRATION & NATURALIZATION SVC	100	-	-	-	-	-	100	-	-
OFFICE OF THE ATTORNEY GENERAL	1,648	-	-	-	-	-	-	1,648	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	18,000	650	1,400	-	-	-	-	15,950	-
DEPARTMENT OF LABOR, TOTAL	39,796	-	217	-	-	689	-	38,890	-
BUREAU OF LABOR STATISTICS	912	-	-	-	-	-	-	912	-
EMPLOYMENT STANDARDS ADMIN	5,338	-	-	-	-	-	-	5,338	-
EMPLOYMENT & TRAINING ADMIN	24,156	-	217	-	-	689	-	23,250	-
LABOR-MANAGEMENT SERVICES ADMIN	2,683	-	-	-	-	-	-	2,683	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	5,107	-	-	-	-	-	-	5,107	-
OFFICE OF THE SECRETARY	1,600	-	-	-	-	-	-	1,600	-
DEPARTMENT OF STATE, TOTAL	2,649	44	-	-	232	-	40	2,198	135
DEPARTMENTAL FUNDS	2,649	44	-	-	232	-	40	2,198	135

CONTINUED ON NEXT PAGE

TABLE C-52. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	66,983	3,183	-	1,000	1,400	10,943	35,742	10,190	4,525
COAST GUARD	10,900	-	-	1,000	1,000	-	4,500	75	4,325
FEDERAL AVIATION ADMINISTRATION	7,500	-	-	-	-	-	7,500	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,400	-	-	-	-	-	4,100	100	200
FEDERAL RAILROAD ADMINISTRATION	7,500	-	-	-	-	28	7,462	10	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	30,003	3,183	-	-	-	9,795	8,580	8,445	-
OFFICE OF THE SECRETARY	580	-	-	-	-	-	300	280	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,000	-	-	-	400	1,120	2,200	1,280	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	-	-	1,100	-	-
DEPARTMENT OF THE TREASURY, TOTAL	4,498	-	-	673	-	250	-	-	3,575
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	655	-	-	80	-	-	-	-	575
BUREAU OF ENGRAVING AND PRINTING ...	593	-	-	593	-	-	-	-	-
INTERNAL REVENUE SERVICE	3,250	-	-	-	-	250	-	-	3,000
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,696	-	-	-	-	-	-	1,696	-
APPALACHIAN REGIONAL COMMISSION	650	-	-	-	-	-	-	650	-
CIVIL AERONAUTICS BOARD	631	-	-	-	-	-	-	631	-
COMMUNITY SERVICES ADMINISTRATION	1,813	-	-	-	-	-	-	1,813	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,800	1,590	-	-	-	-	210	-	-
ENVIRONMENTAL PROTECTION AGENCY	248,900	79,907	-	71,446	2,204	1,024	92,733	1,586	-
FEDERAL COMMUNICATIONS COMMISSION	2,900	-	-	-	-	73	1,305	1,522	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	6,705	124	224	782	-	496	2,935	1,214	930
FEDERAL HOME LOAN BANK BOARD	863	-	-	-	-	-	-	863	-
FEDERAL TRADE COMMISSION	1,076	-	-	-	-	-	-	1,076	-
GENERAL SERVICES ADMINISTRATION	144	-	-	-	-	-	144	-	-
INTERNAT'L COMMUNICATION AGENCY	77	-	-	-	-	-	77	-	-
INTERNAT'L DEV COOPERATION AGENCY	66,886	56,409	-	-	306	-	1,250	7,829	1,092
AGENCY FOR INTERNAT'L DEVELOPMENT ..	66,886	56,409	-	-	306	-	1,250	7,829	1,092
INTERSTATE COMMERCE COMMISSION	150	-	-	-	-	50	-	100	-
LIBRARY OF CONGRESS	500	-	-	-	-	-	-	-	500
NATIONAL AERONAUTICS & SPACE ADMIN ...	938,389	38,787	1,150	12,294	265,069	1,654	618,397	15	1,023
NATIONAL SCIENCE FOUNDATION	66,770	4,743	571	8,717	3,803	2,733	20,142	17,165	8,896
NUCLEAR REGULATORY COMMISSION	148,772	-	-	-	-	-	148,772	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,354	-	1,354	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	12,351	1,098	-	2,690	-	-	8,563	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,710	-	-	78	259	292	763	1,318	-
US INTERNAT'L TRADE COMMISSION	3,417	-	-	-	-	-	-	3,417	-
VETERANS ADMINISTRATION	101,839	87,933	9,923	-	-	-	3,983	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

91

TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	7,294,523	2,151,210	144,[illegible]88	857,650	740,720	173,928	2,519,781	418,083	288,763
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	409,451	263,212	73	29,239	9,953	2,866	35,222	68,886	-
AGRICULTURAL MARKETING SERVICE	619	619	-	-	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	34,522	-	-	-	-	1,036	-	33,486	-
FOREST SERVICE	72,700	45,219	73	2,472	7,924	872	[illegible]	7,488	-
SCIENCE & EDUCATION ADMINISTRATION	301,610	217,374	-	26,767	2,029	958	[illegible]	27,912	-
AGRICULTURAL RESEARCH	191,575	141,765	-	21,265	1,341	958	22,798	3,448	-
COOPERATIVE RESEARCH	110,035	75,609	-	5,502	688	-	3,772	24,464	-
DEPARTMENT OF COMMERCE, TOTAL	215,570	56,239	93	26,598	82,719	5,215	37,989	6,691	26
BUREAU OF THE CENSUS	1,098	-	93	-	-	703	-	276	26
ECONOMIC DEVELOPMENT ADMIN	2,200	-	-	-	-	-	-	2,200	-
MARITIME ADMINISTRATION	10,074	-	-	-	-	350	9,224	500	-
NATIONAL BUREAU OF STANDARDS	46,888	-	-	21,544	420	3,475	18,297	3,152	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	146,406	56,239	-	4,821	82,128	687	2,135	396	-
NAT'L TELECOMM & INFO ADMIN	8,500	-	-	-	-	-	8,333	167	-
OFFICE OF THE SECRETARY	404	-	-	233	171	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	2,004,174	129,824	54,116	306,340	103,318	134,833	1,120,009	4,322	151,412
DEPARTMENT OF THE ARMY	460,125	69,138	23,847	82,939	22,359	32,453	224,145	856	4,388
DEPARTMENT OF THE NAVY	329,000	11,207	9,454	70,767	19,576	34,136	183,860	-	-
DEPARTMENT OF THE AIR FORCE	698,300	39,500	18,600	75,260	29,550	45,588	489,118	-	684
DEFENSE AGENCIES	516,749	9,979	2,215	77,374	31,833	22,656	222,886	3,466	146,340
DEPARTMENT OF EDUCATION	67,420	16,893	2,454	-	-	-	5,889	32,969	9,215
DEPARTMENT OF ENERGY	749,387	120,014	-	357,419	108,387	1,464	137,575	3,331	21,197
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,583,929	1,201,609	70,222	31,894	-	4,478	30,843	156,962	87,921
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	132,699	66,792	41,166	388	-	627	153	22,070	1,503
CENTER FOR DISEASE CONTROL	94,480	94,480	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	64,159	64,159	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	46,782	-	-	-	-	-	-	46,782	-
HEALTH RESOURCES ADMINISTRATION	265	-	-	-	-	-	-	265	-
HEALTH SERVICES ADMINISTRATION	5,530	5,230	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	1,164,305	970,948	29,056	31,506	-	3,851	30,690	12,136	86,118
OFFICE OF ASST'T SECY FOR HEALTH	15,276	-	-	-	-	-	-	15,276	-
OFF OF HUMAN DEVELOPMENT SVCS	15,449	-	-	-	-	-	-	15,449	-
OFFICE OF THE SECRETARY	22,200	-	-	-	-	-	-	22,200	-
SOCIAL SECURITY ADMINISTRATION	22,784	-	-	-	-	-	-	22,784	-
DEPT OF HOUSING & URBAN DEV	23,370	-	-	-	-	-	2,146	21,224	-
DEPARTMENT OF THE INTERIOR, TOTAL	286,585	83,327	847	7,421	115,578	5,431	68,054	5,015	912
BUREAU OF LAND MANAGEMENT	1,323	1,148	-	-	100	-	-	75	-
BUREAU OF MINES	65,100	-	-	1,000	8,500	3,500	52,100	-	-
GEOLOGICAL SURVEY	103,739	-	-	4,578	89,889	1,715	7,557	-	-
NATIONAL PARK SERVICE	8,985	4,995	-	-	1,405	5	-	2,574	6
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,300	876	447	808	1,891	91	2,946	241	-
OFFICE OF WATER RSCH & TECHNOLOGY	14,700	3,260	400	1,035	3,525	120	3,660	1,950	750
US FISH & WILDLIFE SERVICE	72,638	72,638	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	12,800	410	-	-	10,268	-	1,791	175	156
DEPARTMENT OF JUSTICE, TOTAL	22,900	400	1,900	-	-	200	1,400	19,000	-
DRUG ENFORCEMENT ADMIN	1,400	-	200	-	-	200	1,000	-	-
FEDERAL PRISON SYSTEM	650	-	-	-	-	-	-	650	-
IMMIGRATION & NATURALIZATION SVC	400	-	-	-	-	-	400	-	-
OFFICE OF THE ATTORNEY GENERAL	1,250	-	-	-	-	-	-	1,250	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	19,200	400	1,700	-	-	-	-	17,100	-
DEPARTMENT OF LABOR, TOTAL	41,949	-	447	-	-	698	-	40,804	-
BUREAU OF LABOR STATISTICS	925	-	-	-	-	-	-	925	-
EMPLOYMENT STANDARDS ADMIN	6,348	-	-	-	-	-	-	6,348	-
EMPLOYMENT & TRAINING ADMIN	23,841	-	447	-	-	698	-	22,696	-
LABOR-MANAGEMENT SERVICES ADMIN	2,689	-	-	-	-	-	-	2,689	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	6,546	-	-	-	-	-	-	6,546	-
OFFICE OF THE SECRETARY	1,600	-	-	-	-	-	-	1,600	-
DEPARTMENT OF STATE, TOTAL	2,366	-	-	-	617	-	-	1,599	150
DEPARTMENTAL FUNDS	2,366	-	-	-	617	-	-	1,599	150

CONTINUED ON NEXT PAGE

TABLE C-53. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	70,352	3,836	-	1,200	1,040	12,074	39,131	10,871	2,200
COAST GUARD	10,100	-	-	1,200	1,000	-	5,600	100	2,200
FEDERAL AVIATION ADMINISTRATION	7,700	-	-	-	-	-	7,700	-	-
FEDERAL HIGHWAY ADMINISTRATION	5,100	300	-	-	-	100	4,150	550	-
FEDERAL RAILROAD ADMINISTRATION	7,900	-	-	-	-	31	7,858	11	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	33,332	3,536	-	-	-	10,943	9,463	9,390	-
OFFICE OF THE SECRETARY	620	-	-	-	-	-	320	300	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,500	-	-	-	40	1,000	2,940	520	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	-	-	1,100	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,072	-	-	979	-	580	-	700	813
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	346	-	-	50	-	-	-	-	296
BUREAU OF ENGRAVING AND PRINTING ...	829	-	-	829	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	1,797	-	-	-	-	580	-	700	517
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,717	-	-	-	-	-	-	1,717	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
CIVIL AERONAUTICS BOARD	653	-	-	-	-	-	-	653	-
COMMUNITY SERVICES ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,600	1,421	-	-	-	-	179	-	-
ENVIRONMENTAL PROTECTION AGENCY	245,000	78,731	-	70,257	2,153	1,038	91,082	1,739	-
FEDERAL COMMUNICATIONS COMMISSION	3,930	-	-	-	-	118	1,650	2,162	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	6,688	157	209	838	-	478	2,807	1,256	943
FEDERAL HOME LOAN BANK BOARD	1,211	-	-	-	-	-	-	1,211	-
FEDERAL TRADE COMMISSION	998	-	-	-	-	-	-	998	-
GENERAL SERVICES ADMINISTRATION	117	-	-	-	-	25	82	-	10
INTERNAT'L COMMUNICATION AGENCY	179	-	-	-	-	-	179	-	-
INTERNAT'L DEV COOPERATION AGENCY	74,632	60,184	-	-	75	-	3,660	9,583	1,130
AGENCY FOR INTERNAT'L DEVELOPMENT ..	31,265	16,817	-	-	75	-	3,660	9,583	1,130
INST FOR SCIEN & TECH COOPERATION ..	43,367	43,367	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	161	-	-	-	-	99	-	62	-
LIBRARY OF CONGRESS	600	-	-	-	-	-	-	-	600
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,076,835	42,145	1,114	13,603	312,146	1,086	705,491	50	1,200
NATIONAL SCIENCE FOUNDATION	74,470	3,910	878	8,727	4,214	2,932	22,066	20,509	11,234
NUCLEAR REGULATORY COMMISSION	196,325	-	-	-	-	-	196,325	-	-
OFFICE OF PERSONNEL MANAGEMENT	1,844	-	1,544	-	-	-	-	300	-
TENNESSEE VALLEY AUTHORITY	17,806	1,291	-	2,917	-	-	13,598	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	2,730	-	-	218	520	313	489	1,190	-
US INTERNAT'L TRADE COMMISSION	2,679	-	-	-	-	-	-	2,679	-
VETERANS ADMINISTRATION	102,223	88,017	10,291	-	-	-	3,915	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	8,006,436	2,255,985	162,551	1,035885	798,043	223,437	2,725,119	446,865	358,551
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	418,767	268,121	81	29,359	10,737	3,020	35,936	71,513	-
AGRICULTURAL MARKETING SERVICE	614	614	-	-	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	36,572	-	-	-	-	1,097	-	35,475	-
FOREST SERVICE	80,500	49,731	81	2,768	8,872	977	9,687	8,384	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	2,852	2,852	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	298,229	214,924	-	26,591	1,865	946	26,249	27,654	-
AGRICULTURAL RESEARCH	189,158	139,977	-	21,137	1,183	946	22,510	3,405	-
COOPERATIVE RESEARCH	109,071	74,947	-	5,454	682	-	3,739	24,249	-
DEPARTMENT OF COMMERCE, TOTAL	237,481	68,757	95	27,592	83,666	6,144	44,147	7,053	27
BUREAU OF THE CENSUS	1,119	-	95	-	-	716	-	281	27
ECONOMIC DEVELOPMENT ADMIN	2,200	-	-	-	-	-	-	2,200	-
MARITIME ADMINISTRATION	8,595	-	-	-	-	300	7,795	500	-
NATIONAL BUREAU OF STANDARDS	47,788	-	-	21,751	420	4,258	20,174	1,185	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	168,596	68,757	-	5,841	83,246	870	7,246	2,636	-
NAT'L TELECOMM & INFO ADMIN	9,183	-	-	-	-	-	8,932	251	-
DEPARTMENT OF DEFENSE, TOTAL	2,444,889	158,428	68,410	386,488	135,790	176,256	1,312,226	4,492	202,799
DEPARTMENT OF THE ARMY	605,405	85,858	28,824	108,693	28,716	40,364	304,917	1,013	7,020
DEPARTMENT OF THE NAVY	404,300	14,400	13,269	91,187	20,295	50,845	214,304	-	-
DEPARTMENT OF THE AIR FORCE	771,800	48,000	23,500	74,786	36,400	52,341	535,991	-	782
DEFENSE AGENCIES	663,384	10,170	2,817	111,822	50,379	32,706	257,014	3,479	194,997
DEPARTMENT OF EDUCATION	74,043	17,802	2,571	-	-	-	6,485	37,825	9,360
DEPARTMENT OF ENERGY	843,139	121,651	-	445,745	110,616	1,380	139,150	2,920	21,677
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,642,998	1,243,961	74,756	33,040	-	4,661	31,752	164,175	90,653
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	148,865	76,082	44,845	606	-	696	159	24,777	1,700
CENTER FOR DISEASE CONTROL	97,169	97,169	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	66,212	66,212	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	52,357	-	-	-	-	-	-	52,357	-
HEALTH SERVICES ADMINISTRATION	4,922	4,622	-	-	-	-	-	-	300
NATIONAL INSTITUTES OF HEALTH	1,198,925	999,876	29,911	32,434	-	3,965	31,593	12,493	88,653
OFFICE OF ASST'T SECY FOR HEALTH	17,337	-	-	-	-	-	-	17,337	-
OFF OF HUMAN DEVELOPMENT SVCS	12,024	-	-	-	-	-	-	12,024	-
OFFICE OF THE SECRETARY	21,800	-	-	-	-	-	-	21,800	-
SOCIAL SECURITY ADMINISTRATION	23,387	-	-	-	-	-	-	23,387	-
DEPT OF HOUSING & URBAN DEV	25,776	-	-	-	-	-	4,045	21,731	-
DEPARTMENT OF THE INTERIOR, TOTAL	288,992	91,245	400	6,923	110,303	5,157	67,913	5,871	1,180
BUREAU OF LAND MANAGEMENT	1,308	1,136	-	-	98	-	-	74	-
BUREAU OF MINES	61,600	-	-	900	8,100	3,300	49,300	-	-
GEOLOGICAL SURVEY	101,282	-	-	4,613	86,718	1,732	8,219	-	-
NATIONAL PARK SERVICE	11,295	6,203	-	-	1,426	5	-	3,654	7
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	7,260	1,442	-	275	2,384	-	3,159	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	15,400	3,460	400	1,135	3,725	120	3,860	1,950	750
US FISH & WILDLIFE SERVICE	78,547	78,547	-	-	-	-	-	-	-
WATER & POWER RESOURCES SVC	12,300	457	-	-	7,852	-	3,375	193	423
DEPARTMENT OF JUSTICE, TOTAL	21,941	500	2,350	-	400	100	1,100	17,491	-
DRUG ENFORCEMENT ADMIN	1,100	-	100	-	-	100	900	-	-
FEDERAL PRISON SYSTEM	798	-	-	-	-	-	-	798	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	-	200	-	-
OFFICE OF THE ATTORNEY GENERAL	1,643	-	-	-	-	-	-	1,643	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	18,200	500	2,250	-	400	-	-	15,050	-
DEPARTMENT OF LABOR, TOTAL	48,937	-	418	-	-	1,000	-	47,519	-
BUREAU OF LABOR STATISTICS	1,117	-	-	-	-	-	-	1,117	-
EMPLOYMENT STANDARDS ADMIN	6,483	-	-	-	-	-	-	6,483	-
EMPLOYMENT & TRAINING ADMIN	26,480	-	418	-	-	1,000	-	25,062	-
LABOR-MANAGEMENT SERVICES ADMIN	2,757	-	-	-	-	-	-	2,757	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	10,300	-	-	-	-	-	-	10,300	-
OFFICE OF THE SECRETARY	1,800	-	-	-	-	-	-	1,800	-
DEPARTMENT OF STATE, TOTAL	2,269	-	-	-	520	-	-	1,599	150
DEPARTMENTAL FUNDS	2,269	-	-	-	520	-	-	1,599	150

CONTINUED ON NEXT PAGE

TABLE C-54. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	84,100	4,115	-	1,500	500	12,898	44,414	12,873	7,800
COAST GUARD	15,800	-	-	1,500	500	-	6,000	100	7,700
FEDERAL AVIATION ADMINISTRATION	12,200	-	-	-	-	-	12,200	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,800	200	-	-	-	100	4,100	300	100
FEDERAL RAILROAD ADMINISTRATION	7,800	-	-	-	-	29	7,761	10	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	36,900	3,915	-	-	-	12,029	10,639	10,318	-
OFFICE OF THE SECRETARY	600	-	-	-	-	-	325	275	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	4,800	-	-	-	-	740	2,190	1,870	-
URBAN MASS TRANSPORTATION ADMIN	1,200	-	-	-	-	-	1,200	-	-
DEPARTMENT OF THE TREASURY, TOTAL	3,206	-	-	1,156	-	340	-	800	910
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	160	-	-	50	-	-	-	-	110
BUREAU OF ENGRAVING AND PRINTING ...	1,006	-	-	1,006	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-
INTERNAL REVENUE SERVICE	1,940	-	-	-	-	340	-	800	800
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,836	-	-	-	-	-	-	1,836	-
APPALACHIAN REGIONAL COMMISSION	600	-	-	-	-	-	-	600	-
CIVIL AERONAUTICS BOARD	572	-	-	-	-	-	-	572	-
COMMUNITY SERVICES ADMINISTRATION	1,000	-	-	-	-	-	-	1,000	-
CONSUMER PRODUCT SAFETY COMMISSION ...	3,100	1,984	-	-	-	-	1,116	-	-
ENVIRONMENTAL PROTECTION AGENCY	266,700	84,113	-	76,595	4,267	1,738	97,241	2,746	-
FEDERAL COMMUNICATIONS COMMISSION	3,318	-	-	-	-	100	1,393	1,825	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	9,097	229	306	1,223	623	-	3,505	1,835	1,376
FEDERAL HOME LOAN BANK BOARD	1,342	-	-	-	-	-	-	1,342	-
FEDERAL TRADE COMMISSION	1,221	-	-	-	-	-	-	1,221	-
GENERAL SERVICES ADMINISTRATION	292	-	-	-	-	75	217	-	-
INTERNAT'L COMMUNICATION AGENCY	60	-	-	-	-	-	60	-	-
INTERNAT'L DEV COOPERATION AGENCY	90,037	67,731	-	-	-	-	1,610	12,144	8,552
AGENCY FOR INTERNAT'L DEVELOPMENT ..	46,857	24,551	-	-	-	-	1,610	12,144	8,552
INST FOR SCIEN & TECH COOPERATION ..	43,180	43,180	-	-	-	-	-	-	-
INTERSTATE COMMERCE COMMISSION	240	-	-	-	-	150	-	90	-
LIBRARY OF CONGRESS	400	-	-	-	-	-	-	-	400
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,056,175	31,073	1,218	12,968	335,422	6,597	667,622	55	1,220
NATIONAL SCIENCE FOUNDATION	77,450	3,895	638	9,725	4,579	3,476	23,480	19,210	12,447
NUCLEAR REGULATORY COMMISSION	217,928	-	-	-	-	-	217,928	-	-
OFFICE OF PERSONNEL MANAGEMENT	2,694	-	1,794	-	-	-	-	900	-
TENNESSEE VALLEY AUTHORITY	23,368	812	-	3,421	-	-	19,135	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	3,273	-	-	150	620	345	590	1,568	-
US INTERNAT'L TRADE COMMISSION	4,059	-	-	-	-	-	-	4,059	-
VETERANS ADMINISTRATION	105,136	91,568	9,514	-	-	-	4,054	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-55. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	131,157	30,500	58,097	42,560	1,979,826	661,026	126,066	268,557	825,984	95,253
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	71	-	71	-	242,658	29,389	51,640	156,498	5,131	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	445	-	-	445	-	-
FOREST SERVICE	71	-	71	-	44,224	11,376	32,848	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	197,989	18,013	18,792	156,053	5,131	-
AGRICULTURAL RESEARCH	-	-	-	-	127,834	10,866	18,792	97,665	511	-
COOPERATIVE RESEARCH	-	-	-	-	70,155	7,147	-	58,388	4,620	-
DEPARTMENT OF COMMERCE, TOTAL	104	-	104	-	53,899	-	-	53,899	-	-
BUREAU OF THE CENSUS	104	-	104	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	53,899	-	-	53,899	-	-
DEPARTMENT OF DEFENSE, TOTAL	49,112	714	35,455	12,943	114,408	48,403	2,707	175	59,309	3,814
DEPARTMENT OF THE ARMY	19,213	714	18,499	-	56,324	10,245	1,167	175	44,687	50
DEPARTMENT OF THE NAVY	7,643	-	-	7,643	9,818	750	1,066	-	8,002	-
DEPARTMENT OF THE AIR FORCE	20,300	-	15,000	5,300	39,300	31,526	474	-	6,600	700
DEFENSE AGENCIES	1,956	-	1,956	-	8,966	5,882	-	-	20	3,064
DEPARTMENT OF EDUCATION	1,916	-	-	1,916	14,846	-	-	-	13,135	1,711
DEPARTMENT OF ENERGY	-	-	-	-	110,629	60,496	-	3,234	7,310	39,589
DEPT OF HLTH & HUMAN SERVICES, TOTAL	64,601	19,489	18,119	26,993	1,092,958	434,041	-	-	619,976	38,941
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	38,045	19,489	18,119	437	58,043	30,834	-	-	12,249	14,960
CENTER FOR DISEASE CONTROL	-	-	-	-	76,271	-	-	-	76,271	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	60,979	53,893	-	-	7,086	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	7,913	-	-	-	7,913	-
NATIONAL INSTITUTES OF HEALTH	26,556	-	-	26,556	889,752	349,314	-	-	516,457	23,981
DEPARTMENT OF THE INTERIOR, TOTAL	414	414	-	-	75,960	60,649	14,081	1,070	95	65
BUREAU OF LAND MANAGEMENT	-	-	-	-	889	130	100	659	-	-
NATIONAL PARK SERVICE	14	14	-	-	4,840	3,503	1,337	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	656	-	245	411	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	400	400	-	-	3,260	3,100	-	-	95	65
US FISH & WILDLIFE SERVICE	-	-	-	-	65,941	53,542	12,399	-	-	-
WATER & POWER RESOURCES SVC	-	-	-	-	374	374	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,500	-	950	550	650	-	-	-	650	-
DRUG ENFORCEMENT ADMIN	100	-	-	100	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,400	-	950	450	650	-	-	-	650	-
DEPARTMENT OF LABOR, TOTAL	217	-	217	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	217	-	217	-	-	-	-	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	44	-	35	-	-	9
DEPARTMENTAL FUNDS	-	-	-	-	44	-	35	-	-	9
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	3,183	3,183	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,183	3,183	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,590	-	-	-	-	1,590
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	79,907	-	53,628	17,900	8,379	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	224	-	224	-	124	77	-	-	47	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	56,409	5,816	1,667	35,777	8,958	4,191
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	56,409	5,816	1,667	35,777	8,958	4,191
NATIONAL AERONAUTICS & SPACE ADMIN	1,150	-	992	158	38,787	5,759	2,248	4	29,965	811
NATIONAL SCIENCE FOUNDATION	571	5	566	-	4,743	211	-	-	-	4,532
OFFICE OF PERSONNEL MANAGEMENT	1,354	-	1,354	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,098	1,098	-	-	-	-
VETERANS ADMINISTRATION	9,923	9,878	45	-	87,933	11,904	-	-	76,029	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-56. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	144,188	31,420	62,991	49,777	2,151,210	705,437	122,972	289,968	930,135	102,698
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	73	-	73	-	263,212	30,535	48,614	178,801	5,262	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	619	-	-	619	-	-
FOREST SERVICE	73	-	73	-	45,219	11,632	33,587	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	217,374	18,903	15,027	178,182	5,262	-
AGRICULTURAL RESEARCH	-	-	-	-	141,765	11,200	15,027	115,255	283	-
COOPERATIVE RESEARCH	-	-	-	-	75,609	7,703	-	62,927	4,979	-
DEPARTMENT OF COMMERCE, TOTAL	93	-	93	-	56,239	-	-	56,239	-	-
BUREAU OF THE CENSUS	93	-	93	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	56,239	-	-	56,239	-	-
DEPARTMENT OF DEFENSE, TOTAL	54,116	150	37,512	16,454	129,824	40,136	2,025	225	82,648	4,790
DEPARTMENT OF THE ARMY	23,847	150	23,697	-	69,138	3,812	1,419	225	63,632	50
DEPARTMENT OF THE NAVY	9,454	-	-	9,454	11,207	794	306	-	10,107	-
DEPARTMENT OF THE AIR FORCE	18,600	-	11,600	7,000	39,500	29,400	300	-	8,900	900
DEFENSE AGENCIES	2,215	-	2,215	-	9,979	6,130	-	-	9	3,840
DEPARTMENT OF EDUCATION	2,454	-	-	2,454	16,893	-	-	-	14,671	2,222
DEPARTMENT OF ENERGY	-	-	-	-	120,014	66,819	-	3,498	6,874	42,823
DEPT OF HLTH & HUMAN SERVICES, TOTAL	70,222	21,016	19,639	29,567	1,201,609	473,069	-	-	686,256	42,284
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	41,166	21,016	19,639	511	66,792	33,854	-	-	14,022	18,916
CENTER FOR DISEASE CONTROL	-	-	-	-	94,480	-	-	-	94,480	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	64,159	56,704	-	-	7,455	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	5,230	-	-	-	5,230	-
NATIONAL INSTITUTES OF HEALTH	29,056	-	-	29,056	970,948	382,511	-	-	565,069	23,368
DEPARTMENT OF THE INTERIOR, TOTAL	847	-	400	447	83,327	64,989	16,668	1,322	95	253
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,148	110	200	838	-	-
NATIONAL PARK SERVICE	-	-	-	-	4,995	3,460	1,535	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	447	-	-	447	876	96	108	484	-	188
OFFICE OF WATER RSCH & TECHNOLOGY	400	-	400	-	3,260	3,100	-	-	95	65
US FISH & WILDLIFE SERVICE	-	-	-	-	72,638	57,813	14,825	-	-	-
WATER & POWER RESOURCES SVC	-	-	-	-	410	410	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,900	-	1,250	650	400	-	-	-	400	-
DRUG ENFORCEMENT ADMIN	200	-	-	200	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	1,700	-	1,250	450	400	-	-	-	400	-
DEPARTMENT OF LABOR, TOTAL	447	-	447	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	447	-	447	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	3,836	3,536	-	-	-	300
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	300	-	-	-	-	300
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,536	3,536	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,421	-	-	-	-	1,421
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	78,731	-	52,928	17,332	8,471	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	209	-	209	-	157	-	105	-	52	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	60,184	8,180	1,000	32,546	14,528	3,930
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	16,817	830	-	10,546	1,511	3,930
INST FOR SCIEN & TECH COOPERATION	-	-	-	-	43,367	7,350	1,000	22,000	13,017	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,114	-	909	205	42,145	6,964	1,632	5	32,644	900
NATIONAL SCIENCE FOUNDATION	878	10	868	-	3,910	135	-	-	-	3,775
OFFICE OF PERSONNEL MANAGEMENT	1,544	-	1,544	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	1,291	1,291	-	-	-	-
VETERANS ADMINISTRATION	10,291	10,244	47	-	88,017	9,783	-	-	78,234	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-57. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	162,551	32,395	79,300	50,856	2,255,985	733,029	131,989	312,713	963,560	114,594
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	81	-	81	-	268,121	31,717	51,545	179,643	5,216	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	614	-	-	614	-	-
FOREST SERVICE	81	-	81	-	49,731	13,024	36,707	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	-	-	-	-	2,852	-	-	2,852	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	214,924	18,693	14,838	176,177	5,216	-
AGRICULTURAL RESEARCH	-	-	-	-	139,977	11,058	14,838	113,801	280	-
COOPERATIVE RESEARCH	-	-	-	-	74,947	7,635	-	62,376	4,936	-
DEPARTMENT OF COMMERCE, TOTAL	95	-	95	-	68,757	-	-	68,757	-	-
BUREAU OF THE CENSUS	95	-	95	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	-	-	-	-	68,757	-	-	68,757	-	-
DEPARTMENT OF DEFENSE, TOTAL	68,410	160	54,981	13,269	158,428	39,651	4,542	250	94,116	19,869
DEPARTMENT OF THE ARMY	28,824	160	28,664	-	85,858	4,445	1,555	250	79,558	50
DEPARTMENT OF THE NAVY	13,269	-	-	13,269	14,400	1,055	1,587	-	11,758	-
DEPARTMENT OF THE AIR FORCE	23,500	-	23,500	-	48,000	26,700	1,400	-	2,800	17,100
DEFENSE AGENCIES	2,817	-	2,817	-	10,170	7,451	-	-	-	2,719
DEPARTMENT OF EDUCATION	2,571	-	-	2,571	17,802	-	-	-	15,436	2,366
DEPARTMENT OF ENERGY	-	-	-	-	121,651	68,024	-	4,420	6,913	42,294
DEPT OF HLTH & HUMAN SERVICES, TOTAL	74,756	22,770	18,295	33,691	1,243,961	494,234	-	-	706,588	43,139
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	44,845	22,770	18,295	3,780	76,082	41,053	-	-	15,977	19,052
CENTER FOR DISEASE CONTROL	-	-	-	-	97,169	-	-	-	97,169	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	66,212	58,391	-	-	7,821	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	4,622	-	-	-	4,622	-
NATIONAL INSTITUTES OF HEALTH	29,911	-	-	29,911	999,876	394,790	-	-	580,999	24,087
DEPARTMENT OF THE INTERIOR, TOTAL	400	-	400	-	91,245	70,975	18,055	1,988	95	132
BUREAU OF LAND MANAGEMENT	-	-	-	-	1,136	109	199	828	-	-
NATIONAL PARK SERVICE	-	-	-	-	6,203	4,590	1,613	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	-	-	-	-	1,442	215	-	1,160	-	67
OFFICE OF WATER RSCH & TECHNOLOGY	400	-	400	-	3,460	3,300	-	-	95	65
US FISH & WILDLIFE SERVICE	-	-	-	-	78,547	62,304	16,243	-	-	-
WATER & POWER RESOURCES SVC	-	-	-	-	457	457	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	2,350	-	1,250	1,100	500	-	-	-	500	-
DRUG ENFORCEMENT ADMIN	100	-	-	100	-	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,250	-	1,250	1,000	500	-	-	-	500	-
DEPARTMENT OF LABOR, TOTAL	418	-	418	-	-	-	-	-	-	-
EMPLOYMENT & TRAINING ADMIN	418	-	418	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	-	-	-	-	4,115	3,915	-	-	-	200
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	200	-	-	-	-	200
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	-	-	-	-	3,915	3,915	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	-	-	-	-	1,984	-	-	-	-	1,984
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	84,113	-	54,480	18,106	11,527	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	306	-	306	-	229	153	-	-	76	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	67,731	6,997	2,160	39,544	19,030	-
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	24,551	847	960	17,064	5,680	-
INST FOR SCIEN & TECH COOPERATION	-	-	-	-	43,180	6,150	1,200	22,480	13,350	-
NATIONAL AERONAUTICS & SPACE ADMIN	1,218	-	993	225	31,073	6,530	1,207	5	22,381	950
NATIONAL SCIENCE FOUNDATION	638	-	638	-	3,895	135	-	-	-	3,760
OFFICE OF PERSONNEL MANAGEMENT	1,794	-	1,794	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	-	-	-	-	812	812	-	-	-	-
VETERANS ADMINISTRATION	9,514	9,465	49	-	91,568	9,886	-	-	81,682	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-58. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	800,025	3,786	232,293	532,048	31,898	640,103	174,688	202,026	100,340	163,049
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	26,870	-	24,950	1,920	-	9,425	2,996	6,429	-	-
FOREST SERVICE	2,417	-	1,706	711	-	7,750	1,493	6,257	-	-
SCIENCE & EDUCATION ADMINISTRATION	24,453	-	23,244	1,209	-	1,675	1,503	172	-	-
AGRICULTURAL RESEARCH	19,348	-	18,139	1,209	-	1,036	864	172	-	-
COOPERATIVE RESEARCH	5,105	-	5,105	-	-	639	639	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	26,588	100	7,215	19,221	52	68,813	28,741	1,733	38,256	83
NATIONAL BUREAU OF STANDARDS	21,895	100	6,063	15,732	-	310	150	160	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	4,641	-	1,152	3,489	-	68,473	28,591	1,573	38,256	53
OFFICE OF THE SECRETARY	52	-	-	-	52	30	-	-	-	30
DEPARTMENT OF DEFENSE, TOTAL	295,525	1,250	73,090	211,314	9,871	82,289	44,261	11,521	16,534	9,973
DEPARTMENT OF THE ARMY	80,550	-	46,764	33,661	125	20,276	8,864	4,907	239	6,266
DEPARTMENT OF THE NAVY	62,606	1,250	6,155	50,842	4,359	17,088	2,317	-	14,771	-
DEPARTMENT OF THE AIR FORCE	96,043	-	19,560	75,873	610	11,330	8,800	1,200	-	1,330
DEFENSE AGENCIES	56,326	-	611	50,938	4,777	33,595	24,280	5,414	1,524	2,377
DEPARTMENT OF ENERGY	317,745	-	14,629	286,915	16,201	96,370	15,503	25,388	13,094	42,385
DEPT OF HLTH & HUMAN SERVICES, TOTAL	29,064	-	26,084	2,980	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	224	-	224	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	28,840	-	25,860	2,980	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	6,553	-	5,308	942	303	109,933	9,398	89,633	6,941	3,961
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	160	-	160	-	-
BUREAU OF MINES	800	-	800	-	-	9,700	-	7,000	-	2,700
GEOLOGICAL SURVEY	4,011	-	3,209	802	-	84,836	-	78,339	6,497	-
NATIONAL PARK SERVICE	-	-	-	-	-	1,477	137	534	345	461
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	707	-	404	-	303	1,330	130	1,200	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,035	-	895	140	-	3,525	300	2,400	25	800
WATER & POWER RESOURCES SVC	-	-	-	-	-	8,905	8,831	-	74	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	232	-	-	150	82
DEPARTMENTAL FUNDS	-	-	-	-	-	232	-	-	150	82
DEPARTMENT OF TRANSPORTATION, TOTAL	1,000	-	1,000	-	-	1,400	400	-	1,000	-
COAST GUARD	1,000	-	1,000	-	-	1,000	-	-	1,000	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	400	400	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	673	-	170	123	380	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	80	-	40	40	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	593	-	130	83	380	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	71,446	-	70,671	775	-	2,204	460	1,586	158	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	782	-	40	742	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	306	-	-	-	306
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	306	-	-	-	306
NATIONAL AERONAUTICS & SPACE ADMIN	12,294	2,436	1,134	3,701	5,023	265,069	72,803	62,455	24,067	105,744
NATIONAL SCIENCE FOUNDATION	8,717	-	5,284	3,365	68	3,803	126	3,087	75	515
TENNESSEE VALLEY AUTHORITY	2,690	-	2,690	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	78	-	28	50	-	259	-	194	65	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-59. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	ENVIRONMENTAL SCIENCES TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	857,650	5,821	242,942	561,430	47,457	740,720	233,135	203,761	120,422	183,402
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	29,239	-	27,171	2,068	-	9,953	3,173	6,780	-	-
FOREST SERVICE	2,472	-	1,745	727	-	7,924	1,527	6,397	-	-
SCIENCE & EDUCATION ADMINISTRATION	26,767	-	25,426	1,341	-	2,029	1,646	383	-	-
AGRICULTURAL RESEARCH	21,265	-	19,924	1,341	-	1,341	958	383	-	-
COOPERATIVE RESEARCH	5,502	-	5,502	-	-	688	688	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	26,598	111	7,230	19,024	233	82,719	31,076	2,119	49,468	56
NATIONAL BUREAU OF STANDARDS	21,544	111	6,024	15,409	-	420	241	179	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	4,821	-	1,206	3,615	-	82,128	30,720	1,940	49,468	-
OFFICE OF THE SECRETARY	233	-	-	-	233	171	115	-	-	56
DEPARTMENT OF DEFENSE, TOTAL	306,340	2,905	79,835	207,954	15,646	103,318	64,178	9,924	19,463	9,753
DEPARTMENT OF THE ARMY	82,939	18	50,642	32,104	175	22,359	10,093	5,680	342	6,244
DEPARTMENT OF THE NAVY	70,767	2,887	7,513	55,266	5,101	19,576	2,533	-	17,043	-
DEPARTMENT OF THE AIR FORCE	75,260	-	21,160	54,100	-	29,550	27,100	1,500	-	950
DEFENSE AGENCIES	77,374	-	520	66,484	10,370	31,833	24,452	2,744	2,078	2,559
DEPARTMENT OF ENERGY	357,419	-	13,679	318,084	25,656	108,387	16,564	22,771	13,772	55,280
DEPT OF HLTH & HUMAN SERVICES, TOTAL	31,894	-	28,627	3,267	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	388	-	388	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	31,506	-	28,239	3,267	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	7,421	-	6,177	1,056	188	115,578	10,757	91,194	9,480	4,147
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	100	-	100	-	-
BUREAU OF MINES	1,000	-	1,000	-	-	8,500	-	6,000	-	2,500
GEOLOGICAL SURVEY	4,578	-	3,662	916	-	89,889	-	80,847	9,042	-
NATIONAL PARK SERVICE	-	-	-	-	-	1,405	194	461	310	440
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	808	-	620	-	188	1,891	98	1,386	-	407
OFFICE OF WATER RSCH & TECHNOLOGY	1,035	-	895	140	-	3,525	300	2,400	25	800
WATER & POWER RESOURCES SVC	-	-	-	-	-	10,268	10,165	-	103	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	617	-	100	132	385
DEPARTMENTAL FUNDS	-	-	-	-	-	617	-	100	132	385
DEPARTMENT OF TRANSPORTATION, TOTAL	1,200	-	1,200	-	-	1,040	40	-	1,000	-
COAST GUARD	1,200	-	1,200	-	-	1,000	-	-	1,000	-
RESEARCH & SPECIAL PROGRAMS ADMIN	-	-	-	-	-	40	40	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	979	-	207	241	531	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	829	-	182	116	531	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	70,257	-	69,382	875	-	2,153	450	1,551	152	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	838	-	52	786	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	-	75	-	-	-	75
AGENCY FOR INTERNAT'L DEVELOPMENT	-	-	-	-	-	75	-	-	-	75
NATIONAL AERONAUTICS & SPACE ADMIN	13,603	2,700	1,575	4,175	5,153	312,146	106,847	65,581	26,735	112,983
NATIONAL SCIENCE FOUNDATION	8,727	105	4,847	3,725	50	4,214	50	3,281	160	723
TENNESSEE VALLEY AUTHORITY	2,917	-	2,917	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	218	-	43	175	-	520	-	460	60	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-60. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	1,035,885	5,461	257,452	712,470	60,502	798,043	239,209	234,269	118,881	205,634
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	29,359	-	27,214	2,145	-	10,737	3,203	7,534	-	-
FOREST SERVICE	2,768	-	1,954	814	-	8,872	1,709	7,163	-	-
SCIENCE & EDUCATION ADMINISTRATION	26,591	-	25,260	1,331	-	1,865	1,494	371	-	-
AGRICULTURAL RESEARCH	21,137	-	19,806	1,331	-	1,183	812	371	-	-
COOPERATIVE RESEARCH	5,454	-	5,454	-	-	632	682	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	27,592	111	7,385	20,096	-	83,666	37,741	2,159	43,766	-
NATIONAL BUREAU OF STANDARDS	21,751	111	6,082	15,558	-	420	241	179	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	5,841	-	1,303	4,538	-	83,246	37,500	1,980	43,766	-
DEPARTMENT OF DEFENSE, TOTAL	386,488	2,500	85,253	270,006	28,729	135,790	74,042	28,021	20,402	13,325
DEPARTMENT OF THE ARMY	108,693	-	60,429	48,089	175	28,716	12,460	7,240	676	8,340
DEPARTMENT OF THE NAVY	91,187	2,500	10,275	71,927	6,485	20,295	3,095	-	17,200	-
DEPARTMENT OF THE AIR FORCE	74,786	-	14,130	49,701	10,955	36,400	29,900	4,700	-	1,800
DEFENSE AGENCIES	111,822	-	419	100,289	11,114	50,379	28,587	16,081	2,526	3,185
DEPARTMENT OF ENERGY	445,745	-	14,742	404,219	26,784	110,616	16,388	22,173	12,134	59,921
DEPT OF HLTH & HUMAN SERVICES, TOTAL	33,040	-	29,676	3,364	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	606	-	606	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	32,434	-	29,070	3,364	-	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	6,923	-	5,860	1,063	-	110,303	8,601	88,553	9,447	3,702
BUREAU OF LAND MANAGEMENT	-	-	-	-	-	98	-	98	-	-
BUREAU OF MINES	900	-	900	-	-	8,100	-	5,700	-	2,400
GEOLOGICAL SURVEY	4,613	-	3,690	923	-	86,718	-	77,676	9,042	-
NATIONAL PARK SERVICE	-	-	-	-	-	1,426	192	594	262	378
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	275	-	275	-	-	2,384	375	1,885	-	124
OFFICE OF WATER RSCH & TECHNOLOGY	1,135	-	995	140	-	3,725	300	2,600	25	800
WATER & POWER RESOURCES SVC	-	-	-	-	-	7,852	7,734	-	118	-
DEPARTMENT OF JUSTICE, TOTAL	-	-	-	-	-	400	-	-	-	400
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	-	400	-	-	-	400
DEPARTMENT OF STATE, TOTAL	-	-	-	-	-	520	-	-	132	388
DEPARTMENTAL FUNDS	-	-	-	-	-	520	-	-	132	388
DEPARTMENT OF TRANSPORTATION, TOTAL	1,500	-	1,500	-	-	500	-	-	500	-
COAST GUARD	1,500	-	1,500	-	-	500	-	-	500	-
DEPARTMENT OF THE TREASURY, TOTAL	1,156	-	246	266	644	-	-	-	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	50	-	25	25	-	-	-	-	-	-
BUREAU OF ENGRAVING AND PRINTING	1,006	-	221	141	644	-	-	-	-	-
CUSTOMS SERVICE	100	-	-	100	-	-	-	-	-	-
OTHER AGENCIES										
ENVIRONMENTAL PROTECTION AGENCY	76,595	-	74,970	1,625	-	4,267	1,315	2,336	616	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,223	-	76	1,147	-	623	623	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	12,968	2,750	1,723	4,200	4,295	335,422	97,271	79,337	31,664	127,150
NATIONAL SCIENCE FOUNDATION	9,725	50	5,386	4,239	50	4,579	25	3,596	160	798
TENNESSEE VALLEY AUTHORITY	3,421	-	3,421	-	-	-	-	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY	150	50	-	100	-	620	-	560	60	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-61. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERO-NAUTICAL	ASTRO-NAUTICAL	CHEMICAL	CIVIL	ELEC-TRICAL	MECHAN-ICAL	METAL-LURGY AND MATERIALS	ENGI-NEERING NEC
TOTAL, ALL AGENCIES	2,227,792	571,290	236,471	106,845	112,997	409,254	203,041	107,536	480,358
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	32,173	-	-	3,343	3,150	243	2,399	-	23,039
FOREST SERVICE	8,461	-	-	924	1,422	71	1,707	-	4,337
SCIENCE & EDUCATION ADMINISTRATION	23,712	-	-	2,419	1,728	172	691	-	18,702
AGRICULTURAL RESEARCH	20,212	-	-	2,419	1,728	172	691	-	15,202
COOPERATIVE RESEARCH	3,500	-	-	-	-	-	-	-	3,500
DEPARTMENT OF COMMERCE, TOTAL	29,270	29	-	766	8,550	7,294	3,049	2,465	7,117
MARITIME ADMINISTRATION	9,133	-	-	-	5,301	765	1,667	-	1,400
NATIONAL BUREAU OF STANDARDS	15,805	29	-	766	2,407	3,116	1,382	2,465	5,640
NAT'L OCEANIC & ATMOSPHERIC ADMIN	1,932	-	-	-	842	1,013	-	-	77
NAT'L TELECOMM & INFO ADMIN	2,400	-	-	-	-	2,400	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,001,170	202,546	46,428	42,929	28,737	376,509	163,639	47,867	92,515
DEPARTMENT OF THE ARMY	190,850	33,989	954	10,626	19,604	69,206	27,358	12,247	16,866
DEPARTMENT OF THE NAVY	157,318	19,702	-	10,099	2,460	48,335	28,301	15,782	32,639
DEPARTMENT OF THE AIR FORCE	449,664	117,735	25,326	20,041	1,716	174,861	88,388	12,236	9,361
DEFENSE AGENCIES	203,338	31,120	20,148	2,163	4,957	84,107	19,592	7,602	33,649
DEPARTMENT OF EDUCATION	5,897	-	-	-	-	-	-	-	5,897
DEPARTMENT OF ENERGY	129,107	-	2,025	10,642	-	6,271	1,412	13,748	95,009
DEPT OF HLTH & HUMAN SERVICES, TOTAL	28,203	-	-	-	-	-	-	-	28,203
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	136	-	-	-	-	-	-	-	136
NATIONAL INSTITUTES OF HEALTH	28,067	-	-	-	-	-	-	-	28,067
DEPT OF HOUSING & URBAN DEV	3,507	-	-	-	-	-	-	-	3,507
DEPARTMENT OF THE INTERIOR, TOTAL	62,809	-	161	5,028	12,887	1,178	6,232	35,762	1,561
BUREAU OF MINES	50,900	-	-	4,500	5,500	300	5,000	35,600	-
GEOLOGICAL SURVEY	5,818	-	-	-	4,052	190	640	-	936
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	2,105	-	161	389	450	536	502	67	-
OFFICE OF WATER RSCH & TECHNOLOGY	2,160	-	-	110	1,300	30	-	95	625
WATER & POWER RESOURCES SVC	1,826	-	-	29	1,585	122	90	-	-
DEPARTMENT OF JUSTICE, TOTAL	600	-	-	-	-	600	-	-	-
DRUG ENFORCEMENT ADMIN	500	-	-	-	-	500	-	-	-
IMMIGRATION & NATURALIZATION SVC	100	-	-	-	-	100	-	-	-
DEPARTMENT OF STATE, TOTAL	40	-	-	-	-	40	-	-	-
DEPARTMENTAL FUNDS	40	-	-	-	-	40	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	35,742	1,125	525	780	13,381	2,357	11,441	232	5,901
COAST GUARD	4,500	-	-	500	-	-	-	-	4,000
FEDERAL AVIATION ADMINISTRATION	7,500	1,125	525	-	4,875	975	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,100	-	-	-	3,420	-	400	232	48
FEDERAL RAILROAD ADMINISTRATION	7,462	-	-	-	2,796	632	2,181	-	1,853
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	8,580	-	-	-	-	-	8,580	-	-
OFFICE OF THE SECRETARY	300	-	-	-	300	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,200	-	-	280	890	750	280	-	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	1,100	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	210	-	-	-	-	-	-	-	210
ENVIRONMENTAL PROTECTION AGENCY	92,733	-	-	42,205	34,558	4,325	11,645	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,305	-	-	-	-	1,305	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,935	-	-	522	79	303	888	-	1,143
GENERAL SERVICES ADMINISTRATION	144	-	-	-	136	8	-	-	-
INTERNAT'L COMMUNICATION AGENCY	77	-	-	-	-	77	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	1,250	-	-	-	-	-	1,250	-	-
AGENCY FOR INTERNAT'L DEVELOPMENT	1,250	-	-	-	-	-	1,250	-	-
NATIONAL AERONAUTICS & SPACE ADMIN	618,397	367,590	187,332	13	-	1,406	941	5,114	56,001
NATIONAL SCIENCE FOUNDATION	20,142	-	-	617	11,519	360	46	2,348	5,252
NUCLEAR REGULATORY COMMISSION	148,772	-	-	-	-	-	-	-	148,772
TENNESSEE VALLEY AUTHORITY	8,563	-	-	-	-	6,875	100	-	1,588
US ARMS CONTROL & DISARMAMENT AGENCY	763	-	-	-	-	103	-	-	660
VETERANS ADMINISTRATION	3,983	-	-	-	-	-	-	-	3,983

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-62. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,519,781	638,264	269,805	110,107	117,004	463,542	233,837	120,135	567,087
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	35,222	-	-	3,244	3,178	265	2,511	-	26,024
FOREST SERVICE	8,652	-	-	945	1,454	73	1,745	-	4,435
SCIENCE & EDUCATION ADMINISTRATION	26,570	-	-	2,299	1,724	192	766	-	21,539
AGRICULTURAL RESEARCH	22,798	-	-	2,299	1,724	192	766	-	17,817
COOPERATIVE RESEARCH	3,772	-	-	-	-	-	-	-	3,772
DEPARTMENT OF COMMERCE, TOTAL	37,989	81	-	697	8,564	13,505	3,240	4,616	7,286
MARITIME ADMINISTRATION	9,224	-	-	-	5,074	750	1,600	-	1,800
NATIONAL BUREAU OF STANDARDS	18,297	81	-	697	2,551	3,392	1,640	4,600	5,336
NAT'L OCEANIC & ATMOSPHERIC ADMIN	2,135	-	-	-	939	1,030	-	16	150
NAT'L TELECOMM & INFO ADMIN	8,333	-	-	-	-	8,333	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,120,009	215,311	50,573	43,900	30,049	418,693	192,598	53,550	115,335
DEPARTMENT OF THE ARMY	224,145	40,448	1,426	11,251	21,003	84,065	31,031	13,934	20,987
DEPARTMENT OF THE NAVY	183,860	23,398	-	11,831	2,500	53,813	30,392	16,745	45,181
DEPARTMENT OF THE AIR FORCE	489,118	115,000	23,470	20,045	1,930	193,761	111,818	12,996	10,098
DEFENSE AGENCIES	222,886	36,465	25,677	773	4,616	87,054	19,357	9,875	39,069
DEPARTMENT OF EDUCATION	5,889	-	-	-	-	-	-	-	5,889
DEPARTMENT OF ENERGY	137,575	-	1,363	14,328	-	7,926	2,662	14,124	97,172
DEPT OF HLTH & HUMAN SERVICES, TOTAL	30,843	-	-	-	-	-	-	-	30,843
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	153	-	-	-	-	-	-	-	153
NATIONAL INSTITUTES OF HEALTH	30,690	-	-	-	-	-	-	-	30,690
DEPT OF HOUSING & URBAN DEV	2,146	-	-	-	-	-	-	-	2,146
DEPARTMENT OF THE INTERIOR, TOTAL	68,054	-	21	5,414	15,690	664	5,952	38,492	1,821
BUREAU OF MINES	52,100	-	-	5,000	5,000	200	4,500	37,400	-
GEOLOGICAL SURVEY	7,557	-	-	-	5,727	285	975	-	570
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	2,946	-	21	240	625	-	437	997	626
OFFICE OF WATER RSCH & TECHNOLOGY	3,660	-	-	110	2,800	30	-	95	625
WATER & POWER RESOURCES SVC	1,791	-	-	64	1,538	149	40	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,400	-	-	-	-	1,400	-	-	-
DRUG ENFORCEMENT ADMIN	1,000	-	-	-	-	1,000	-	-	-
IMMIGRATION & NATURALIZATION SVC	400	-	-	-	-	400	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	39,131	1,155	539	980	13,317	3,152	12,322	1,080	6,586
COAST GUARD	5,600	-	-	500	-	500	-	-	4,600
FEDERAL AVIATION ADMINISTRATION	7,700	1,155	539	-	5,005	1,001	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,150	-	-	-	3,540	-	250	300	60
FEDERAL RAILROAD ADMINISTRATION	7,858	-	-	-	2,957	691	2,284	-	1,926
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,463	-	-	-	-	-	9,463	-	-
OFFICE OF THE SECRETARY	320	-	-	-	320	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,940	-	-	480	395	960	325	780	-
URBAN MASS TRANSPORTATION ADMIN	1,100	-	-	-	1,100	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	179	-	-	-	-	-	-	-	179
ENVIRONMENTAL PROTECTION AGENCY	91,082	-	-	40,466	34,410	4,426	11,780	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,650	-	-	-	-	1,650	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	2,807	-	-	519	70	276	807	-	1,135
GENERAL SERVICES ADMINISTRATION	82	-	-	-	82	-	-	-	-
INTERNAT'L COMMUNICATION AGENCY	179	-	-	-	-	179	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	3,660	-	-	-	-	-	775	-	2,885
AGENCY FOR INTERNAT'L DEVELOPMENT	3,660	-	-	-	-	-	775	-	2,885
NATIONAL AERONAUTICS & SPACE ADMIN	705,491	421,717	217,309	15	-	1,550	1,050	5,481	58,369
NATIONAL SCIENCE FOUNDATION	22,066	-	-	544	11,644	693	40	2,792	6,353
NUCLEAR REGULATORY COMMISSION	196,325	-	-	-	-	-	-	-	196,325
TENNESSEE VALLEY AUTHORITY	13,598	-	-	-	-	9,163	100	-	4,335
US ARMS CONTROL & DISARMAMENT AGENCY	489	-	-	-	-	-	-	-	489
VETERANS ADMINISTRATION	3,915	-	-	-	-	-	-	-	3,915

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-63. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	2,725,119	632,289	284,633	135,740	131,445	549,853	227,700	133,463	629,996
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	35,936	-	-	3,328	3,330	271	2,710	-	26,297
FOREST SERVICE	9,687	-	-	1,058	1,628	81	1,954	-	4,966
SCIENCE & EDUCATION ADMINISTRATION	26,249	-	-	2,270	1,702	190	756	-	21,331
AGRICULTURAL RESEARCH	22,510	-	-	2,270	1,702	190	756	-	17,592
COOPERATIVE RESEARCH	3,739	-	-	-	-	-	-	-	3,739
DEPARTMENT OF COMMERCE, TOTAL	44,147	81	-	704	7,541	16,063	3,056	4,998	11,704
MARITIME ADMINISTRATION	7,795	-	-	-	3,995	700	1,400	-	1,700
NATIONAL BUREAU OF STANDARDS	20,174	81	-	704	2,576	5,126	1,656	4,645	5,386
NAT'L OCEANIC & ATMOSPHERIC ADMIN	7,246	-	-	-	970	1,305	-	353	4,618
NAT'L TELECOMM & INFO ADMIN	8,932	-	-	-	-	8,932	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	1,312,226	238,227	76,291	67,265	41,487	496,802	184,985	69,748	137,421
DEPARTMENT OF THE ARMY	304,917	50,389	1,160	22,529	25,100	121,364	39,959	14,975	29,441
DEPARTMENT OF THE NAVY	214,304	23,665	-	20,949	2,100	59,635	35,740	22,289	49,926
DEPARTMENT OF THE AIR FORCE	535,991	122,540	36,292	23,165	2,490	228,784	91,295	14,794	16,631
DEFENSE AGENCIES	257,014	41,633	38,839	622	11,797	87,019	17,991	17,690	41,423
DEPARTMENT OF EDUCATION	6,485	-	-	-	-	-	-	-	6,485
DEPARTMENT OF ENERGY	139,150	-	859	12,701	-	8,105	2,176	15,642	99,667
DEPT OF HLTH & HUMAN SERVICES, TOTAL	31,752	-	-	-	-	-	-	-	31,752
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	159	-	-	-	-	-	-	-	159
NATIONAL INSTITUTES OF HEALTH	31,593	-	-	-	-	-	-	-	31,593
DEPT OF HOUSING & URBAN DEV	4,045	-	-	-	-	-	-	-	4,045
DEPARTMENT OF THE INTERIOR, TOTAL	67,913	-	-	4,959	16,640	525	5,274	37,960	2,555
BUREAU OF MINES	49,300	-	-	4,500	4,500	-	4,000	36,300	-
GEOLOGICAL SURVEY	8,219	-	-	-	5,143	295	1,010	-	1,771
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	3,159	-	-	85	1,126	-	224	1,555	159
OFFICE OF WATER RSCH & TECHNOLOGY	3,860	-	-	310	2,800	30	-	95	625
WATER & POWER RESOURCES SVC	3,375	-	-	64	3,071	200	40	-	-
DEPARTMENT OF JUSTICE, TOTAL	1,100	-	-	-	-	1,100	-	-	-
DRUG ENFORCEMENT ADMIN	900	-	-	-	-	900	-	-	-
IMMIGRATION & NATURALIZATION SVC	200	-	-	-	-	200	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	44,414	1,830	854	845	16,048	3,263	13,737	350	7,487
COAST GUARD	6,000	-	-	-	-	500	-	-	5,500
FEDERAL AVIATION ADMINISTRATION	12,200	1,830	854	-	7,930	1,586	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	4,100	-	-	-	3,590	-	100	350	60
FEDERAL RAILROAD ADMINISTRATION	7,761	-	-	-	2,908	657	2,269	-	1,927
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	10,638	-	-	-	-	-	10,638	-	-
OFFICE OF THE SECRETARY	325	-	-	325	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN	2,190	-	-	520	420	520	730	-	-
URBAN MASS TRANSPORTATION ADMIN	1,200	-	-	-	1,200	-	-	-	-
OTHER AGENCIES									
CONSUMER PRODUCT SAFETY COMMISSION	1,116	-	-	-	-	-	-	-	1,116
ENVIRONMENTAL PROTECTION AGENCY	97,241	-	-	44,572	35,858	4,648	12,163	-	-
FEDERAL COMMUNICATIONS COMMISSION	1,393	-	-	-	-	1,393	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY	3,505	-	-	688	70	348	879	-	1,520
GENERAL SERVICES ADMINISTRATION	217	-	-	-	217	-	-	-	-
INTERNAT'L COMMUNICATION AGENCY	60	-	-	-	-	60	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	1,610	-	-	-	-	-	1,500	-	110
AGENCY FOR INTERNAT'L DEVELOPMENT	1,610	-	-	-	-	-	1,500	-	110
NATIONAL AERONAUTICS & SPACE ADMIN	667,622	392,131	206,629	15	-	1,600	1,100	1,877	64,270
NATIONAL SCIENCE FOUNDATION	23,480	20	-	663	10,254	783	20	2,888	8,852
NUCLEAR REGULATORY COMMISSION	217,928	-	-	-	-	-	-	-	217,928
TENNESSEE VALLEY AUTHORITY	19,135	-	-	-	-	14,892	100	-	4,143
US ARMS CONTROL & DISARMAMENT AGENCY	590	-	-	-	-	-	-	-	590
VETERANS ADMINISTRATION	4,054	-	-	-	-	-	-	-	4,054

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	161,190	27,268	92,417	41,505	398,335	4,855	149,870	9,781	46,217	187,612
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,935	2,935	-	-	61,368	-	56,897	71	3,472	928
ECON, STAT & COOPERATIVES SERVICE ..	873	873	-	-	28,237	-	27,655	-	291	291
FOREST SERVICE	853	853	-	-	7,324	-	5,475	71	1,778	-
SCIENCE & EDUCATION ADMINISTRATION .	1,209	1,209	-	-	25,807	-	23,767	-	1,403	637
AGRICULTURAL RESEARCH	1,209	1,209	-	-	3,109	-	2,270	-	202	637
COOPERATIVE RESEARCH	-	-	-	-	22,698	-	21,497	-	1,201	-
DEPARTMENT OF COMMERCE, TOTAL	5,178	4,222	956	-	10,743	-	10,463	140	140	-
BUREAU OF THE CENSUS	784	655	129	-	308	-	168	-	140	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	8,000	-	8,000	-	-	-
MARITIME ADMINISTRATION	440	-	440	-	588	-	588	-	-	-
NATIONAL BUREAU OF STANDARDS	3,283	3,236	47	-	1,707	-	1,707	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN ..	671	331	340	-	140	-	-	140	-	-
DEPARTMENT OF DEFENSE, TOTAL	124,752	8,881	79,938	35,933	6,596	-	100	1,940	589	3,967
DEPARTMENT OF THE ARMY	31,292	2,312	6,260	22,720	756	-	100	-	589	67
DEPARTMENT OF THE NAVY	30,627	1,788	24,045	4,794	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	36,664	3,000	31,064	2,600	-	-	-	-	-	-
DEFENSE AGENCIES	26,169	1,781	18,569	5,819	5,840	-	-	1,940	-	3,900
DEPARTMENT OF EDUCATION	-	-	-	-	40,817	-	-	-	-	40,817
DEPARTMENT OF ENERGY	599	99	500	-	2,906	-	-	557	-	2,349
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	3,944	3,360	92	492	140,393	2,572	16,813	506	23,823	96,679
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	584	-	92	492	20,378	2,572	273	272	15,314	1,947
HEALTH CARE FINANCING ADMIN	-	-	-	-	31,828	-	-	-	-	31,828
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	4,944	-	-	-	-	4,944
NATIONAL INSTITUTES OF HEALTH	3,360	3,360	-	-	11,141	-	-	-	-	11,141
OFFICE OF ASST'T SECY FOR HEALTH ...	-	-	-	-	16,279	-	698	234	1,719	13,628
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	14,863	-	-	-	-	14,863
OFFICE OF THE SECRETARY	-	-	-	-	22,632	-	15,842	-	6,790	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	18,328	-	-	-	-	18,328
DEPT OF HOUSING & URBAN DEV	-	-	-	-	20,263	-	14,097	-	-	6,166
DEPARTMENT OF THE INTERIOR, TOTAL	5,478	4,166	1,192	120	4,980	2,283	845	750	797	305
BUREAU OF LAND MANAGEMENT	-	-	-	-	72	-	-	-	72	-
BUREAU OF MINES	4,000	4,000	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	1,317	160	1,157	-	80	-	-	-	-	80
NATIONAL PARK SERVICE	6	6	-	-	2,598	2,283	12	-	303	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	35	-	35	-	145	-	145	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY ..	120	-	-	120	1,950	-	650	750	325	225
WATER & POWER RESOURCES SVC	-	-	-	-	135	-	38	-	97	-
DEPARTMENT OF JUSTICE, TOTAL	100	-	100	-	18,096	-	300	974	6,035	10,787
DRUG ENFORCEMENT ADMIN	100	-	100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	498	-	-	174	35	289
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,648	-	-	-	-	1,648
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	15,950	-	300	800	6,000	8,850
DEPARTMENT OF LABOR, TOTAL	689	-	689	-	38,890	-	28,891	-	361	9,638
BUREAU OF LABOR STATISTICS	-	-	-	-	912	-	912	-	-	-
EMPLOYMENT STANDARDS ADMIN	-	-	-	-	5,338	-	5,338	-	-	-
EMPLOYMENT & TRAINING ADMIN	689	-	689	-	23,250	-	13,251	-	361	9,638
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,683	-	2,683	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN .	-	-	-	-	5,107	-	5,107	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,600	-	1,600	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	2,198	-	348	-	-	1,850
DEPARTMENTAL FUNDS	-	-	-	-	2,198	-	348	-	-	1,850

CONTINUED ON NEXT PAGE

TABLE C-64. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	10,943	1,029	5,183	4,731	10,190	-	6,002	-	4,188	-
COAST GUARD	-	-	-	-	75	-	75	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	-	-	-	-	100	-	100	-	-	-
FEDERAL RAILROAD ADMINISTRATION	28	-	28	-	10	-	10	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	9,795	1,029	4,035	4,731	8,445	-	4,257	-	4,188	-
OFFICE OF THE SECRETARY	-	-	-	-	280	-	280	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,120	-	1,120	-	1,280	-	1,280	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	250	250	-	-	-	-	-	-	-	-
INTERNAL REVENUE SERVICE	250	250	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,696	-	848	848	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	650	-	650	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	631	-	631	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,813	-	-	-	1,813	-
ENVIRONMENTAL PROTECTION AGENCY	1,024	-	1,024	-	1,586	-	1,586	-	-	-
FEDERAL COMMUNICATIONS COMMISSION	73	-	-	73	1,522	-	1,522	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	496	496	-	-	1,214	-	374	314	526	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	863	-	863	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,076	-	1,076	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	7,829	-	559	2,550	4,170	550
AGENCY FOR INTERNAT'L DEVELOPMENT ..	-	-	-	-	7,829	-	559	2,550	4,170	550
INTERSTATE COMMERCE COMMISSION	50	-	50	-	100	-	100	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,654	1,370	284	-	15	-	-	15	-	-
NATIONAL SCIENCE FOUNDATION	2,733	460	2,273	-	17,165	-	2,988	298	303	13,576
US ARMS CONTROL & DISARMAMENT AGENCY .	292	-	136	156	1,318	-	500	818	-	-
US INTERNAT'L TRADE COMMISSION	-	-	-	-	3,417	-	3,417	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-65. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	173,928	27,825	101,543	44,560	418,083	5,221	156,573	8,937	47,242	200,110
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	2,866	2,866	-	-	68,886	17	64,108	73	3,457	1,231
ECON, STAT & COOPERATIVES SERVICE	1,036	1,036	-	-	33,496	-	32,796	-	345	345
FOREST SERVICE	872	872	-	-	7,498	-	5,598	73	1,817	-
SCIENCE & EDUCATION ADMINISTRATION	958	958	-	-	27,912	17	25,714	-	1,295	886
AGRICULTURAL RESEARCH	958	958	-	-	3,448	17	2,545	-	-	886
COOPERATIVE RESEARCH	-	-	-	-	24,464	-	23,169	-	1,295	-
DEPARTMENT OF COMMERCE, TOTAL	5,215	4,309	906	-	6,691	-	6,323	243	125	-
BUREAU OF THE CENSUS	703	587	116	-	276	-	151	-	125	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	2,200	-	2,200	-	-	-
MARITIME ADMINISTRATION	350	-	350	-	500	-	500	-	-	-
NATIONAL BUREAU OF STANDARDS	3,475	3,379	96	-	3,152	-	3,152	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	687	343	344	-	396	-	153	243	-	-
NAT'L TELECOMM & INFO ADMIN	-	-	-	-	167	-	167	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	134,833	9,623	88,458	36,752	4,322	-	100	66	733	3,423
DEPARTMENT OF THE ARMY	32,453	2,173	5,705	24,575	856	-	100	-	733	23
DEPARTMENT OF THE NAVY	34,136	2,808	25,497	5,831	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	45,588	3,200	42,004	384	-	-	-	-	-	-
DEFENSE AGENCIES	22,656	1,442	15,252	5,962	3,466	-	-	66	-	3,400
DEPARTMENT OF EDUCATION	-	-	-	-	32,969	-	-	-	-	32,969
DEPARTMENT OF ENERGY	1,464	-	-	1,464	3,331	-	-	-	-	3,331
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,478	3,944	-	534	156,962	2,958	16,584	612	24,648	112,160
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	627	93	-	534	22,070	2,958	308	306	16,315	2,183
HEALTH CARE FINANCING ADMIN	-	-	-	-	46,782	-	-	-	-	46,782
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	265	-	-	-	-	265
NATIONAL INSTITUTES OF HEALTH	3,851	3,851	-	-	12,136	-	-	-	-	12,136
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	15,276	-	736	306	1,673	12,561
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	15,449	-	-	-	-	15,449
OFFICE OF THE SECRETARY	-	-	-	-	22,200	-	15,540	-	6,660	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	22,784	-	-	-	-	22,784
DEPT OF HOUSING & URBAN DEV	-	-	-	-	21,224	-	15,704	-	-	5,520
DEPARTMENT OF THE INTERIOR, TOTAL	5,431	3,683	1,612	136	5,015	2,246	753	750	869	397
BUREAU OF LAND MANAGEMENT	-	-	-	-	75	-	-	-	75	-
BUREAU OF MINES	3,500	3,500	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	1,715	183	1,532	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	5	-	5	-	2,574	2,246	-	-	328	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	91	-	75	16	241	-	69	-	-	172
OFFICE OF WATER RSCH & TECHNOLOGY	120	-	-	120	1,950	-	650	750	325	225
WATER & POWER RESOURCES SVC	-	-	-	-	175	-	34	-	141	-
DEPARTMENT OF JUSTICE, TOTAL	200	-	200	-	19,000	-	100	2,728	6,045	10,127
DRUG ENFORCEMENT ADMIN	200	-	200	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	650	-	-	228	45	377
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,250	-	-	-	-	1,250
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	17,100	-	100	2,500	6,000	8,500
DEPARTMENT OF LABOR, TOTAL	698	-	698	-	40,804	-	28,286	-	670	11,848
BUREAU OF LABOR STATISTICS	-	-	-	-	925	-	925	-	-	-
EMPLOYMENT STANDARDS ADMIN	-	-	-	-	6,348	-	6,348	-	-	-
EMPLOYMENT & TRAINING ADMIN	698	-	698	-	22,696	-	10,178	-	670	11,848
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,689	-	2,689	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	6,546	-	6,546	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,600	-	1,600	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,599	-	945	-	-	654
DEPARTMENTAL FUNDS	-	-	-	-	1,599	-	945	-	-	654

CONTINUED ON NEXT PAGE

TABLE C-65. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	12,074	1,127	5,584	5,363	10,871	-	5,861	-	4,660	350
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	100	-	100	-	550	-	200	-	-	350
FEDERAL RAILROAD ADMINISTRATION	31	-	31	-	11	-	11	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	10,943	1,127	4,453	5,363	9,390	-	4,730	-	4,660	-
OFFICE OF THE SECRETARY	-	-	-	-	300	-	300	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	1,000	-	1,000	-	520	-	520	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	580	550	30	-	700	-	-	-	-	700
INTERNAL REVENUE SERVICE	580	550	30	-	700	-	-	-	-	700
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,717	-	858	859	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	653	-	653	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
ENVIRONMENTAL PROTECTION AGENCY	1,038	-	1,038	-	1,739	-	1,239	-	500	-
FEDERAL COMMUNICATIONS COMMISSION	118	-	-	118	2,162	-	2,162	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	478	478	-	-	1,256	-	366	314	576	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,211	-	1,211	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	998	-	998	-	-	-
GENERAL SERVICES ADMINISTRATION	25	-	25	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	9,583	-	3,185	1,753	3,575	1,070
AGENCY FOR INTERNAT'L DEVELOPMENT ..	-	-	-	-	9,583	-	3,185	1,753	3,575	1,070
INTERSTATE COMMERCE COMMISSION	99	-	99	-	62	-	62	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,086	786	300	-	50	-	-	50	-	-
NATIONAL SCIENCE FOUNDATION	2,932	459	2,473	-	20,509	-	3,411	384	384	16,330
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	300	-	-	300	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	313	-	120	193	1,190	-	385	805	-	-
US INTERNAT'L TRADE COMMISSION	-	-	-	-	2,679	-	2,679	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

108

TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	223,437	32,753	134,034	56,650	446,865	6,197	174,502	10,096	48,058	208,012
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,020	3,020	-	-	71,513	16	66,490	81	3,684	1,242
ECON, STAT & COOPERATIVES SERVICE	1,097	1,097	-	-	35,475	-	34,743	-	366	366
FOREST SERVICE	977	977	-	-	8,384	-	6,268	81	2,035	-
SCIENCE & EDUCATION ADMINISTRATION	946	946	-	-	27,654	16	25,479	-	1,283	976
AGRICULTURAL RESEARCH	946	946	-	-	3,405	16	2,513	-	-	876
COOPERATIVE RESEARCH	-	-	-	-	24,249	-	22,966	-	1,283	-
DEPARTMENT OF COMMERCE, TOTAL	6,144	4,445	1,699	-	7,053	-	5,525	986	127	415
BUREAU OF THE CENSUS	716	598	118	-	281	-	154	-	127	-
ECONOMIC DEVELOPMENT ADMIN	-	-	-	-	2,200	-	2,200	-	-	-
MARITIME ADMINISTRATION	300	-	300	-	500	-	500	-	-	-
NATIONAL BUREAU OF STANDARDS	4,258	3,412	846	-	1,185	-	1,185	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	870	435	435	-	2,636	-	1,235	986	-	415
NAT'L TELECOMM & INFO ADMIN	-	-	-	-	251	-	251	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	176,256	13,325	114,527	48,404	4,492	-	150	179	838	3,325
DEPARTMENT OF THE ARMY	40,364	2,925	9,360	28,079	1,013	-	150	-	838	25
DEPARTMENT OF THE NAVY	50,845	3,100	40,499	7,246	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	52,341	5,200	46,741	400	-	-	-	-	-	-
DEFENSE AGENCIES	32,706	2,100	17,927	12,679	3,479	-	-	179	-	3,300
DEPARTMENT OF EDUCATION	-	-	-	-	37,825	-	-	-	-	37,825
DEPARTMENT OF ENERGY	1,380	-	-	1,380	2,920	-	-	-	-	2,920
DEPT OF HLTH & HUMAN SERVICES, TOTAL	4,661	4,073	-	588	164,175	2,869	16,528	784	26,889	117,105
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	696	108	-	588	24,777	2,869	350	349	18,391	2,818
HEALTH CARE FINANCING ADMIN	-	-	-	-	52,357	-	-	-	-	52,357
NATIONAL INSTITUTES OF HEALTH	3,965	3,965	-	-	12,493	-	-	-	-	12,493
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	17,337	-	918	435	1,958	14,026
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	12,024	-	-	-	-	12,024
OFFICE OF THE SECRETARY	-	-	-	-	21,800	-	15,260	-	6,540	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	23,387	-	-	-	-	23,387
DEPT OF HOUSING & URBAN DEV	-	-	-	-	21,731	-	16,176	-	-	5,555
DEPARTMENT OF THE INTERIOR, TOTAL	5,157	3,484	1,553	120	5,871	3,312	697	750	887	225
BUREAU OF LAND MANAGEMENT	-	-	-	-	74	-	-	-	74	-
BUREAU OF MINES	3,300	3,300	-	-	-	-	-	-	-	-
GEOLOGICAL SURVEY	1,732	184	1,548	-	-	-	-	-	-	-
NATIONAL PARK SERVICE	5	-	5	-	3,654	3,312	-	-	342	-
OFFICE OF WATER RSCH & TECHNOLOGY	120	-	-	120	1,950	-	650	750	325	225
WATER & POWER RESOURCES SVC	-	-	-	-	193	-	47	-	146	-
DEPARTMENT OF JUSTICE, TOTAL	100	-	100	-	17,491	-	300	1,279	5,056	10,856
DRUG ENFORCEMENT ADMIN	100	-	100	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	-	-	-	-	798	-	-	279	56	463
OFFICE OF THE ATTORNEY GENERAL	-	-	-	-	1,643	-	-	-	-	1,643
OFF OF JUSTICE ASSIST, RSCH, & STAT	-	-	-	-	15,050	-	300	1,000	5,000	8,750
DEPARTMENT OF LABOR, TOTAL	1,000	-	1,000	-	47,519	-	36,103	-	628	10,788
BUREAU OF LABOR STATISTICS	-	-	-	-	1,117	-	1,117	-	-	-
EMPLOYMENT STANDARDS ADMIN	-	-	-	-	6,483	-	6,483	-	-	-
EMPLOYMENT & TRAINING ADMIN	1,000	-	1,000	-	25,062	-	13,646	-	628	10,788
LABOR-MANAGEMENT SERVICES ADMIN	-	-	-	-	2,757	-	2,757	-	-	-
OCCUPATIONAL SAFETY & HEALTH ADMIN	-	-	-	-	10,300	-	10,300	-	-	-
OFFICE OF THE SECRETARY	-	-	-	-	1,800	-	1,800	-	-	-
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1,599	-	945	-	-	654
DEPARTMENTAL FUNDS	-	-	-	-	1,599	-	945	-	-	654

CONTINUED ON NEXT PAGE

TABLE C-66. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
DEPARTMENT OF TRANSPORTATION, TOTAL ..	12,898	1,250	5,810	5,838	12,873	-	6,773	-	5,800	300
COAST GUARD	-	-	-	-	100	-	100	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	100	-	100	-	300	-	-	-	-	300
FEDERAL RAILROAD ADMINISTRATION	29	-	29	-	10	-	10	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	12,029	1,250	4,941	5,838	10,318	-	5,248	-	5,070	-
OFFICE OF THE SECRETARY	-	-	-	-	275	-	275	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	740	-	740	-	1,870	-	1,140	-	730	-
DEPARTMENT OF THE TREASURY, TOTAL	340	340	-	-	800	-	-	-	-	800
INTERNAL REVENUE SERVICE	340	340	-	-	800	-	-	-	-	800
OTHER AGENCIES										
ADVISORY COMM ON INTERGOV'TL RELATIONS	-	-	-	-	1,836	-	918	918	-	-
APPALACHIAN REGIONAL COMMISSION	-	-	-	-	600	-	600	-	-	-
CIVIL AERONAUTICS BOARD	-	-	-	-	572	-	572	-	-	-
COMMUNITY SERVICES ADMINISTRATION	-	-	-	-	1,000	-	-	-	1,000	-
ENVIRONMENTAL PROTECTION AGENCY	1,738	500	1,238	-	2,746	-	2,246	-	500	-
FEDERAL COMMUNICATIONS COMMISSION	100	-	-	100	1,825	-	1,825	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	-	-	-	-	1,835	-	535	459	841	-
FEDERAL HOME LOAN BANK BOARD	-	-	-	-	1,342	-	1,342	-	-	-
FEDERAL TRADE COMMISSION	-	-	-	-	1,221	-	1,221	-	-	-
GENERAL SERVICES ADMINISTRATION	75	-	75	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	-	-	-	-	12,144	-	7,212	2,108	1,389	1,435
AGENCY FOR INTERNAT'L DEVELOPMENT ..	-	-	-	-	12,144	-	7,212	2,108	1,389	1,435
INTERSTATE COMMERCE COMMISSION	150	-	150	-	90	-	90	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	6,597	1,528	5,069	-	55	-	-	55	-	-
NATIONAL SCIENCE FOUNDATION	3,476	788	2,688	-	19,210	-	3,805	419	419	14,567
OFFICE OF PERSONNEL MANAGEMENT	-	-	-	-	900	-	-	900	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	345	-	125	220	1,568	-	390	1,178	-	-
US INTERNAT'L TRADE COMMISSION	-	-	-	-	4,059	-	4,059	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-67. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	18,305,207	4,045,739	10,973,043	1,073,116	547,676	710,398	411,941	295,392	170,655	77,257
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	31,105	29,023	292	-	1,672	-	10	-	17	91
AGRICULTURAL MARKETING SERVICE	522	522	-	-	-	-	-	-	-	-
FOREST SERVICE	5,000	5,000	-	-	-	-	-	-	-	-
OFFICE OF TRANSPORTATION	665	665	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	24,918	22,836	292	-	1,672	-	10	-	17	91
AGRICULTURAL RESEARCH	24,918	22,836	292	-	1,672	-	10	-	17	91
DEPARTMENT OF COMMERCE, TOTAL	89,901	37,124	18,740	-	4,988	108	14,288	-	14,575	78
BUREAU OF THE CENSUS	1,241	1,241	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	34,580	1,263	2,211	-	3,000	-	13,895	-	14,211	-
MARITIME ADMINISTRATION	7,400	200	6,236	-	600	-	-	-	364	-
NATIONAL BUREAU OF STANDARDS	16,000	11,237	4,283	-	305	-	97	-	-	78
NAT'L OCEANIC & ATMOSPHERIC ADMIN	28,485	20,988	6,010	-	1,083	108	296	-	-	-
NAT'L TELECOMM & INFO ADMIN	1,660	1,660	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	535	535	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	10,354,593	2,868,027	6,857,230	112,386	153,857	55,868	58,762	197,855	93	50,515
DEPARTMENT OF THE ARMY	2,306,462	781,359	1,467,047	695	12,168	17,399	9,641	5,845	93	12,215
DEPARTMENT OF THE NAVY	3,902,242	1,099,793	2,512,120	111,691	97,418	9,807	32,491	3,055	-	35,867
DEPARTMENT OF THE AIR FORCE	3,774,916	827,700	2,680,501	-	42,581	28,662	14,194	178,845	-	2,433
DEFENSE AGENCIES	341,663	135,120	195,006	-	1,690	-	2,436	7,411	-	-
DIRECTOR OF TEST & EVAL, DEFENSE	29,310	24,055	2,556	-	-	-	-	2,699	-	-
DEPARTMENT OF EDUCATION	72,896	9,928	5,745	-	22,131	-	30,792	-	4,165	135
DEPARTMENT OF ENERGY	3,506,920	308,588	1,479,672	954,900	56,336	570,778	24,348	95,635	14,627	2,036
DEPT OF HLTH & HUMAN SERVICES, TOTAL	489,211	46,976	38,882	5,830	235,479	2,121	134,784	641	18,491	6,007
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	748	25	-	-	-	-	723	-	-	-
HEALTH SERVICES ADMINISTRATION	18,494	1,520	-	-	2,708	-	12,934	-	1,332	-
NATIONAL INSTITUTES OF HEALTH	423,022	40,464	35,987	5,830	223,291	2,121	101,613	641	7,088	5,987
OFFICE OF ASST'T SECY FOR HEALTH	4,722	1,662	528	-	1,929	-	565	-	18	20
OFF OF HUMAN DEVELOPMENT SVCS	42,225	3,305	2,367	-	7,551	-	18,949	-	10,053	-
DEPT OF HOUSING & URBAN DEV	44,145	11,818	17,901	-	3,206	-	10,189	-	1,031	-
DEPARTMENT OF THE INTERIOR, TOTAL	66,310	30,195	26,994	-	5,404	425	2,682	168	306	136
BUREAU OF LAND MANAGEMENT	214	141	-	-	73	-	-	-	-	-
BUREAU OF MINES	41,904	15,271	18,565	-	5,066	144	2,325	117	280	136
GEOLOGICAL SURVEY	500	500	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	9,438	1,315	8,123	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	13,454	12,168	306	-	265	281	357	51	26	-
WATER & POWER RESOURCES SVC	800	800	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	14,145	2,053	4,095	-	1,942	-	5,098	-	957	-
DRUG ENFORCEMENT ADMIN	1,700	500	1,200	-	-	-	-	-	-	-
FEDERAL BUREAU OF INVESTIGATION	3,080	225	2,855	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	2,890	822	-	-	1,013	-	737	-	318	-
IMMIGRATION & NATURALIZATION SVC	100	60	40	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	32	3	-	-	-	-	29	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	6,343	443	-	-	929	-	4,332	-	639	-
DEPARTMENT OF LABOR, TOTAL	94,895	4,195	11,269	-	6,609	-	12,299	-	60,523	-
EMPLOYMENT & TRAINING ADMIN	94,895	4,195	11,269	-	6,609	-	12,299	-	60,523	-
DEPARTMENT OF STATE, TOTAL	474	134	340	-	-	-	-	-	-	-
DEPARTMENTAL FUNDS	474	134	340	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-67. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	303,106	88,556	149,859	-	16,201	340	13,710	-	34,440	-
COAST GUARD	10,200	3,000	6,800	-	400	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	103,000	24,720	68,918	-	100	-	9,262	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	48,500	10,854	3,685	-	9,000	-	-	-	24,961	-
FEDERAL RAILROAD ADMINISTRATION	36,700	10,184	23,071	-	533	-	1,109	-	1,803	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	26,636	5,745	14,700	-	1,330	-	1,245	-	3,616	-
OFFICE OF THE SECRETARY	11,122	4,097	6,925	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	10,000	5,900	2,200	-	1,900	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	56,948	24,056	23,560	-	2,838	340	2,094	-	4,060	-
DEPARTMENT OF THE TREASURY, TOTAL	4,823	795	2,943	-	118	27	-	940	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1,858	62	829	-	-	27	-	940	-	-
BUREAU OF ENGRAVING AND PRINTING ...	1,495	525	970	-	-	-	-	-	-	-
CUSTOMS SERVICE	1,340	118	1,104	-	118	-	-	-	-	-
INTERNAL REVENUE SERVICE	130	90	40	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	1,572	114	-	-	-	-	1,458	-	-	-
APPALACHIAN REGIONAL COMMISSION	220	10	170	-	-	-	-	-	40	-
COMMUNITY SERVICES ADMINISTRATION	18,865	1,500	-	-	-	-	17,365	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	2,100	1,533	483	-	-	-	84	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	151,100	55,980	47,530	-	3,380	-	25,670	-	18,540	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,863	1,696	100	-	3	-	1,026	-	38	-
GENERAL SERVICES ADMINISTRATION	335	1	334	-	-	-	-	-	-	-
INTERNAT'L COMMUNICATION AGENCY	27	25	2	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	39,586	1,310	2,851	-	10,384	-	11,796	92	-	13,153
AGENCY FOR INTERNAT'L DEVELOPMENT ..	39,586	1,310	2,851	-	10,384	-	11,796	92	-	13,153
LIBRARY OF CONGRESS	5,300	4,800	500	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	2,959,772	515,754	2,305,884	-	18,665	80,636	32,364	51	1,312	5,106
NATIONAL SCIENCE FOUNDATION	7,900	124	-	-	4,455	-	3,321	-	-	-
OFFICE OF PERSONNEL MANAGEMENT	4,634	2,134	500	-	500	-	-	-	1,500	-
TENNESSEE VALLEY AUTHORITY	21,937	10,120	-	-	-	-	11,817	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	830	8	727	-	-	95	-	-	-	-
VETERANS ADMINISTRATION	15,642	13,218	-	-	2,346	-	78	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-68. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS		FOREIGN
TOTAL, ALL AGENCIES	20,075,084	4,339,146	12,332,143	1,072,989	540,669	739,176	406,790	333,381	217,023		93,767
DEPARTMENTS											
DEPARTMENT OF AGRICULTURE, TOTAL	34,300	31,950	441	-	1,784	-	16	-	24		35
AGRICULTURAL MARKETING SERVICE	727	727	-	-	-	-	-	-	-		-
FOREST SERVICE	5,500	5,500	-	-	-	-	-	-	-		-
OFFICE OF TRANSPORTATION	822	822	-	-	-	-	-	-	-		-
SCIENCE & EDUCATION ADMINISTRATION	27,251	24,901	441	-	1,784	-	16	-	24		35
AGRICULTURAL RESEARCH	27,251	24,901	441	-	1,784	-	16	-	24		35
DEPARTMENT OF COMMERCE, TOTAL	93,806	38,227	19,125	-	5,986	100	14,478	-	15,810		80
BUREAU OF THE CENSUS	1,592	1,592	-	-	-	-	-	-	-		-
ECONOMIC DEVELOPMENT ADMIN	36,000	1,320	2,310	-	3,000	-	13,860	-	15,510		-
MARITIME ADMINISTRATION	7,800	100	6,950	-	250	-	200	-	300		-
NATIONAL BUREAU OF STANDARDS	16,700	11,272	4,933	-	315	-	100	-	-		80
NAT'L OCEANIC & ATMOSPHERIC ADMIN	30,354	22,583	4,932	-	2,421	100	318	-	-		-
NAT'L TELECOMM & INFO ADMIN	800	800	-	-	-	-	-	-	-		-
PATENT AND TRADEMARK OFFICE	560	560	-	-	-	-	-	-	-		-
DEPARTMENT OF DEFENSE, TOTAL	11,353,196	3,076,055	7,607,163	121,290	148,908	60,530	54,456	223,276	108		61,410
DEPARTMENT OF THE ARMY	2,417,847	835,980	1,538,528	1,290	5,598	20,533	7,158	4,980	108		3,672
DEPARTMENT OF THE NAVY	4,313,628	1,162,244	2,844,331	120,000	94,331	4,707	28,738	4,095	-		55,192
DEPARTMENT OF THE AIR FORCE	4,213,549	900,766	3,010,191	-	47,950	35,290	16,125	200,681	-		2,546
DEFENSE AGENCIES	375,572	151,427	210,663	-	1,029	-	2,435	10,018	-		-
DIRECTOR OF TEST & EVAL, DEFENSE	32,600	25,638	3,450	-	-	-	-	3,512	-		-
DEPARTMENT OF EDUCATION	63,681	10,425	5,990	-	21,678	-	21,388	-	4,050		150
DEPARTMENT OF ENERGY	3,680,031	349,121	1,621,979	941,301	47,120	568,318	21,854	107,996	19,975		2,367
DEPT OF HLTH & HUMAN SERVICES, TOTAL	494,352	47,589	40,855	6,855	236,414	2,634	132,282	627	21,056		6,040
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,526	144	-	-	-	-	1,382	-	-		-
HEALTH SERVICES ADMINISTRATION	23,405	3,100	2,192	-	2,670	-	14,658	-	785		-
NATIONAL INSTITUTES OF HEALTH	417,823	38,476	35,549	6,855	223,135	2,634	95,406	627	9,117		6,024
OFFICE OF ASST'T SECY FOR HEALTH	6,506	2,238	849	-	2,457	-	907	-	39		16
OFF OF HUMAN DEVELOPMENT SVCS	45,092	3,631	2,265	-	8,152	-	19,929	-	11,115		-
DEPT OF HOUSING & URBAN DEV	38,094	11,010	14,586	-	2,669	-	8,807	-	1,022		-
DEPARTMENT OF THE INTERIOR, TOTAL	62,867	27,527	26,780	-	5,400	420	2,280	240	220		-
BUREAU OF LAND MANAGEMENT	331	132	-	-	199	-	-	-	-		-
BUREAU OF MINES	36,937	13,237	16,100	-	5,000	200	2,000	200	200		-
GEOLOGICAL SURVEY	500	500	-	-	-	-	-	-	-		-
OFFICE OF WATER RSCH & TECHNOLOGY	11,039	600	10,439	-	-	-	-	-	-		-
US FISH & WILDLIFE SERVICE	12,860	11,858	241	-	201	220	280	40	20		-
WATER & POWER RESOURCES SVC	1,200	1,200	-	-	-	-	-	-	-		-
DEPARTMENT OF JUSTICE, TOTAL	16,337	2,928	4,040	-	1,365	-	6,169	600	1,235		-
DRUG ENFORCEMENT ADMIN	3,000	1,000	1,400	-	-	-	-	600	-		-
FEDERAL BUREAU OF INVESTIGATION	2,215	215	2,000	-	-	-	-	-	-		-
FEDERAL PRISON SYSTEM	3,460	912	-	-	401	-	1,752	-	395		-
IMMIGRATION & NATURALIZATION SVC	400	200	200	-	-	-	-	-	-		-
OFFICE OF THE ATTORNEY GENERAL	450	10	440	-	-	-	-	-	-		-
OFF OF JUSTICE ASSIST, RSCH, & STAT	6,812	591	-	-	964	-	4,417	-	840		-
DEPARTMENT OF LABOR, TOTAL	118,786	2,134	10,328	-	4,319	-	11,292	-	90,713		-
EMPLOYMENT & TRAINING ADMIN	118,786	2,134	10,328	-	4,319	-	11,292	-	90,713		-
DEPARTMENT OF STATE, TOTAL	400	50	350	-	-	-	-	-	-		-
DEPARTMENTAL FUNDS	400	50	350	-	-	-	-	-	-		-

CONTINUED ON NEXT PAGE

TABLE C-68. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	291,847	85,795	138,685	-	16,369	500	15,533	-	34,965	-
COAST GUARD	11,900	3,000	8,400	-	500	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	95,400	22,896	61,399	-	100	-	11,005	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	50,100	11,500	3,800	-	9,200	-	-	-	25,600	-
FEDERAL RAILROAD ADMINISTRATION	40,200	10,236	25,908	-	786	-	1,245	-	2,025	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	25,672	5,647	14,119	-	1,283	-	1,283	-	3,340	-
OFFICE OF THE SECRETARY	11,850	3,916	7,834	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	9,900	5,900	2,100	-	1,900	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	46,825	22,700	15,125	-	2,500	500	2,000	-	4,000	-
DEPARTMENT OF THE TREASURY, TOTAL	7,611	2,534	3,778	543	248	22	-	486	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	1,204	82	614	-	-	22	-	486	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,871	1,742	1,129	-	-	-	-	-	-	-
CUSTOMS SERVICE	3,533	707	2,035	543	248	-	-	-	-	-
INTERNAL REVENUE SERVICE	3	3	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	1,620	135	-	-	-	-	1,485	-	-	-
APPALACHIAN REGIONAL COMMISSION	200	10	90	-	-	-	-	-	100	-
COMMUNITY SERVICES ADMINISTRATION	24,000	1,500	-	-	-	-	22,500	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,900	1,178	684	-	-	-	38	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	156,300	58,560	39,630	-	3,600	-	29,510	-	25,000	-
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	15,000	750	11,250	3,000	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,510	1,342	100	-	3	-	1,025	-	40	-
GENERAL SERVICES ADMINISTRATION	212	5	207	-	-	-	-	-	-	-
INTERNAT'L COMMUNICATION AGENCY	29	26	3	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	44,250	6	2,550	-	14,385	-	8,573	105	-	18,631
AGENCY FOR INTERNAT'L DEVELOPMENT ..	28,500	3	2,550	-	9,838	-	8,573	105	-	7,431
INST FOR SCIEN & TECH COOPERATION ..	15,750	3	-	-	4,547	-	-	-	-	11,200
LIBRARY OF CONGRESS	4,600	4,300	300	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,499,012	543,954	2,781,862	-	22,000	106,452	38,489	51	1,200	5,004
NATIONAL SCIENCE FOUNDATION	9,000	269	2	-	5,414	-	3,310	-	5	-
OFFICE OF PERSONNEL MANAGEMENT	4,901	2,226	525	-	625	-	25	-	1,500	-
TENNESSEE VALLEY AUTHORITY	36,849	23,569	-	-	-	-	13,280	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	1,100	60	840	-	-	200	-	-	-	-
VETERANS ADMINISTRATION	18,293	15,911	-	-	2,382	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-69. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	INTRA-MURAL 1/	EXTRAMURAL								
			UNITED STATES AND TERRITORIES								
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	22,583,842	4,987,513	14,096,681	1,096,852	566,121	747,327	400,297	379,697	229,296	79,358
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	35,186	32,171	640	-	1,811	-	23	-	35	506
AGRICULTURAL MARKETING SERVICE	721	721	-	-	-	-	-	-	-	-
FOREST SERVICE	6,100	6,100	-	-	-	-	-	-	-	-
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	432	10	-	-	-	-	-	-	-	422
OFFICE OF TRANSPORTATION	871	871	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	27,062	24,469	640	-	1,811	-	23	-	35	84
AGRICULTURAL RESEARCH	27,062	24,469	640	-	1,811	-	23	-	35	84
DEPARTMENT OF COMMERCE, TOTAL	102,920	43,423	19,869	108	5,772	150	15,963	-	17,555	80
BUREAU OF THE CENSUS	1,649	1,649	-	-	-	-	-	-	-	-
ECONOMIC DEVELOPMENT ADMIN	39,500	1,460	2,555	-	3,000	-	15,330	-	17,155	-
MARITIME ADMINISTRATION	6,918	100	5,968	-	250	-	200	-	400	-
NATIONAL BUREAU OF STANDARDS	16,560	11,672	4,333	-	315	-	100	-	-	80
NAT'L OCEANIC & ATMOSPHERIC ADMIN	36,411	26,600	7,013	108	2,207	150	333	-	-	-
NAT'L TELECOMM & INFO ADMIN	880	880	-	-	-	-	-	-	-	-
PATENT AND TRADEMARK OFFICE	1,062	1,062	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	13,644,129	3,713,083	9,173,311	126,315	173,003	61,498	54,346	290,464	113	51,996
DEPARTMENT OF THE ARMY	2,650,726	936,413	1,668,634	1,315	6,270	20,407	6,050	8,008	113	3,516
DEPARTMENT OF THE NAVY	4,292,224	1,206,161	2,788,314	125,000	95,859	3,384	23,007	5,731	-	44,768
DEPARTMENT OF THE AIR FORCE	6,162,868	1,332,845	4,434,675	-	69,910	37,707	23,509	260,450	-	3,712
DEFENSE AGENCIES	496,171	202,076	278,338	-	964	-	1,780	13,013	-	-
DIRECTOR OF TEST & EVAL, DEFENSE	42,200	35,588	3,350	-	-	-	-	3,262	-	-
DEPARTMENT OF EDUCATION	63,928	9,052	5,613	-	23,322	-	21,390	-	4,551	-
DEPARTMENT OF ENERGY	3,569,811	348,590	1,504,605	959,345	41,399	592,490	22,952	87,400	10,476	2,554
DEPT OF HLTH & HUMAN SERVICES, TOTAL	476,441	48,352	37,938	5,684	239,531	3,982	120,877	631	15,962	3,484
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	1,650	137	-	-	-	-	1,513	-	-	-
HEALTH SERVICES ADMINISTRATION	7,696	4,089	-	-	1,007	-	2,600	-	-	-
NATIONAL INSTITUTES OF HEALTH	416,843	38,595	34,654	5,684	227,427	3,982	96,651	631	5,750	3,469
OFFICE OF ASST'T SECY FOR HEALTH	8,301	2,009	1,336	-	3,411	-	1,442	-	88	15
OFF OF HUMAN DEVELOPMENT SVCS	41,951	3,522	1,948	-	7,686	-	18,671	-	10,124	-
DEPT OF HOUSING & URBAN DEV	38,309	10,040	14,989	-	2,940	-	9,190	-	1,150	-
DEPARTMENT OF THE INTERIOR, TOTAL	58,973	25,261	25,078	-	5,417	442	2,309	244	222	-
BUREAU OF LAND MANAGEMENT	327	131	-	-	196	-	-	-	-	-
BUREAU OF MINES	31,576	10,776	13,200	-	5,000	200	2,000	200	200	-
OFFICE OF WATER RSCH & TECHNOLOGY	12,213	600	11,613	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	13,757	12,654	265	-	221	242	309	44	22	-
WATER & POWER RESOURCES SVC	1,100	1,100	-	-	-	-	-	-	-	-
DEPARTMENT OF JUSTICE, TOTAL	12,701	2,272	1,522	-	1,642	-	5,953	500	812	-
DRUG ENFORCEMENT ADMIN	2,000	500	1,000	-	-	-	-	500	-	-
FEDERAL BUREAU OF INVESTIGATION	297	275	22	-	-	-	-	-	-	-
FEDERAL PRISON SYSTEM	3,357	1,002	-	-	440	-	1,603	-	312	-
IMMIGRATION & NATURALIZATION SVC	200	100	100	-	-	-	-	-	-	-
OFFICE OF THE ATTORNEY GENERAL	547	5	400	-	142	-	-	-	-	-
OFF OF JUSTICE ASSIST, RSCH, & STAT	6,300	390	-	-	1,060	-	4,350	-	500	-
DEPARTMENT OF LABOR, TOTAL	141,132	2,305	9,127	-	3,508	-	9,815	-	116,377	-
EMPLOYMENT & TRAINING ADMIN	141,132	2,305	9,127	-	3,508	-	9,815	-	116,377	-
DEPARTMENT OF STATE, TOTAL	400	40	360	-	-	-	-	-	-	-
DEPARTMENTAL FUNDS	400	40	360	-	-	-	-	-	-	-

CONTINUED ON NEXT PAGE

115

TABLE C-69. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY AGENCY AND PERFORMER: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	TOTAL	INTRAMURAL 1/	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS	FOREIGN
DEPARTMENT OF TRANSPORTATION, TOTAL ..	294,220	89,653	139,415	-	16,503	500	14,001	-	34,148	-
COAST GUARD	8,200	5,000	2,700	-	500	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	102,900	24,696	67,529	-	100	-	10,575	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	50,700	11,500	4,100	-	9,400	-	-	-	25,700	-
FEDERAL RAILROAD ADMINISTRATION	37,970	10,394	23,843	-	723	-	1,146	-	1,864	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	25,600	5,376	14,080	-	1,280	-	1,280	-	3,584	-
OFFICE OF THE SECRETARY	11,400	3,787	7,513	-	100	-	-	-	-	-
RESEARCH & SPECIAL PROGRAMS ADMIN ..	9,800	6,200	1,700	-	1,900	-	-	-	-	-
URBAN MASS TRANSPORTATION ADMIN	47,650	22,700	17,950	-	2,500	500	1,000	-	3,000	-
DEPARTMENT OF THE TREASURY, TOTAL	6,726	4,051	2,275	-	150	8	-	242	-	-
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	640	70	320	-	-	8	-	242	-	-
BUREAU OF ENGRAVING AND PRINTING ...	2,994	2,994	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	3,082	977	1,955	-	150	-	-	-	-	-
INTERNAL REVENUE SERVICE	10	10	-	-	-	-	-	-	-	-
OTHER AGENCIES										
ACTION	2,559	159	-	-	-	-	2,400	-	-	-
APPALACHIAN REGIONAL COMMISSION	200	10	90	-	-	-	-	-	100	-
COMMUNITY SERVICES ADMINISTRATION	23,000	1,500	-	-	-	-	21,500	-	-	-
CONSUMER PRODUCT SAFETY COMMISSION ...	1,800	1,116	648	-	36	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	159,700	59,500	41,330	-	3,870	-	30,000	-	25,000	-
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	27,000	1,350	20,250	5,400	-	-	-	-	-	-
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	2,510	1,342	100	-	3	-	1,025	-	40	-
GENERAL SERVICES ADMINISTRATION	150	1	149	-	-	-	-	-	-	-
INTERNAT'L COMMUNICATION AGENCY	80	80	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	41,340	6	1,800	-	15,192	-	7,942	165	-	16,235
AGENCY FOR INTERNAT'L DEVELOPMENT ..	26,620	3	1,800	-	10,275	-	7,942	165	-	6,435
INST FOR SCIEN & TECH COOPERATION ..	14,720	3	-	-	4,917	-	-	-	-	9,800
LIBRARY OF CONGRESS	4,700	4,300	400	-	-	-	-	-	-	-
NATIONAL AERONAUTICS & SPACE ADMIN ...	3,796,790	542,377	3,096,277	-	22,000	88,117	41,765	51	1,200	5,003
NATIONAL SCIENCE FOUNDATION	11,000	330	5	-	6,710	-	3,900	-	55	-
OFFICE OF PERSONNEL MANAGEMENT	5,444	2,304	640	-	930	-	70	-	1,500	-
TENNESSEE VALLEY AUTHORITY	43,793	28,917	-	-	-	-	14,876	-	-	-
US ARMS CONTROL & DISARMAMENT AGENCY .	600	10	450	-	-	140	-	-	-	-
VETERANS ADMINISTRATION	18,300	15,918	-	-	2,382	-	-	-	-	-

1/ INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-70. FEDERAL FUNDS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	OBLIGATIONS			OUTLAYS		
	1979	ESTIMATES		1979	ESTIMATES	
		1980	1981		1980	1981
TOTAL, ALL AGENCIES	1,475.5	2,024.7	1,977.6	1,202.8	1,708.1	1,791.9
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	22.6	41.3	37.3	21.7	37.9	40.7
FOREST SERVICE	3.5	3.6	-	3.5	3.6	-
SCIENCE & EDUCATION ADMINISTRATION	19.1	37.7	37.3	18.2	34.3	40.7
AGRICULTURAL RESEARCH	19.1	37.7	32.3	18.2	34.3	40.7
COOPERATIVE RESEARCH	-	-	5.0	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	2.4	4.7	1.4	1.9	4.7	1.4
MARITIME ADMINISTRATION	.9	.5	.5	.5	.5	.5
NATIONAL BUREAU OF STANDARDS	1.5	.3	.6	1.4	.4	.6
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	-	3.9	.3	-	3.9	.3
DEPARTMENT OF DEFENSE, TOTAL	270.2	368.7	445.1	235.8	305.6	383.4
DEPARTMENT OF THE ARMY	3.8	17.3	16.5	2.1	4.8	11.6
DEPARTMENT OF THE NAVY	68.1	71.5	93.3	52.9	71.2	84.6
DEPARTMENT OF THE AIR FORCE	167.5	255.8	287.5	164.9	208.1	252.2
DEFENSE AGENCIES	30.8	24.1	47.8	15.9	21.5	35.0
DEPARTMENT OF ENERGY	844.4	1,284.3	1,212.4	653.5	1,008.6	1,075.2
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	53.5	41.8	54.4	73.4	65.0	40.1
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	.1	.8	5.4	.4	.1	1.2
FOOD & DRUG ADMINISTRATION	5.8	.7	26.6	.6	1.8	4.8
NATIONAL INSTITUTES OF HEALTH	47.6	40.3	22.4	72.5	63.1	34.2
DEPARTMENT OF THE INTERIOR, TOTAL	5.0	11.3	9.2	9.0	11.8	10.2
BUREAU OF MINES	.3	2.2	-	4.3	3.0	1.9
OFFICE OF SURFACE MINING RECLAMATION AND ENFORCEMENT	-	1.1	1.0	-	1.1	1.0
OFFICE OF WATER RESEARCH & TECHNOLOGY	.7	.7	1.2	.7	.7	.8
UNITED STATES FISH AND WILDLIFE SERVICE	4.0	7.3	7.0	4.0	7.0	6.5
DEPARTMENT OF TRANSPORTATION, TOTAL	22.6	25.8	17.9	16.2	25.6	14.1
FEDERAL AVIATION ADMINISTRATION	9.9	8.4	6.6	9.5	8.1	6.4
FEDERAL HIGHWAY ADMINISTRATION	.6	7.0	.6	.2	7.0	.6
FEDERAL RAILROAD ADMINISTRATION	11.9	10.2	10.5	6.3	10.3	6.9
NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION	.2	.2	.2	.2	.2	.2
DEPARTMENT OF THE TREASURY, TOTAL	*	*	.1	*	*	.1
CUSTOMS SERVICE	*	*	.1	*	*	.1
OTHER AGENCIES						
CONSUMER PRODUCT SAFETY COMMISSION	2.7	2.7	2.7	2.7	2.7	2.7
ENVIRONMENTAL PROTECTION AGENCY	2.4	2.0	2.5	2.4	2.0	2.5
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	6.4	7.4	10.2	4.5	7.0	7.7
AGENCY FOR INTERNATIONAL DEVELOPMENT	6.4	4.5	7.0	4.5	5.7	6.2
INST FOR SCIENTIFIC & TECHNOLOGICAL COOPERATION	-	3.0	3.2	-	1.3	1.5
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	147.5	156.1	120.0	132.7	153.9	156.0
NATIONAL SCIENCE FOUNDATION	30.2	19.3	16.9	29.4	18.1	16.3
NUCLEAR REGULATORY COMMISSION	8.6	7.7	10.3	8.0	7.1	9.5
SMITHSONIAN INSTITUTION	1.0	1.1	.1	.6	.9	1.0
TENNESSEE VALLEY AUTHORITY	50.8	39.4	20.3	8.2	52.7	22.0
VETERANS ADMINISTRATION	5.1	11.0	16.8	2.8	4.4	9.0

* INDICATES AMOUNT LESS THAN $50,000.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-71. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	1,475,455	544,803	214,408	224,441	42,015	414,126	9,245	17,742	301	8,374
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	22,635	22,635	-	-	-	-	-	-	-	-
FOREST SERVICE	3,500	3,500	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	19,135	19,135	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH	19,135	19,135	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	2,417	430	1,987	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	900	-	900	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	1,517	430	1,087	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	270,200	251,718	15,656	-	2,262	20	544	-	-	-
DEPARTMENT OF THE ARMY	3,800	3,800	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	68,100	68,100	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	167,500	167,500	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	30,800	12,318	15,656	-	2,262	20	544	-	-	-
DEPARTMENT OF ENERGY	844,411	6,446	185,747	218,158	13,762	393,440	2,239	17,294	301	7,024
DEPT OF HLTH & HUMAN SERVICES, TOTAL	53,482	41,029	-	-	7,508	-	4,945	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	99	99	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	5,755	5,755	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	47,628	35,175	-	-	7,508	-	4,945	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	5,015	4,289	726	-	-	-	-	-	-	-
BUREAU OF MINES	277	277	-	-	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	726	-	726	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	4,012	4,012	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	22,600	14,500	8,100	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	9,900	9,900	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	600	600	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	11,900	3,800	8,100	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	40	40	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	40	40	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,700	2,700	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,400	2,400	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	6,442	14	634	-	3,027	-	1,417	-	-	1,350
AGENCY FOR INTERNAT'L DEVELOPMENT	6,442	14	634	-	3,027	-	1,417	-	-	1,350
NATIONAL AERONAUTICS & SPACE ADMIN	147,500	141,301	-	-	-	6,199	-	-	-	-
NATIONAL SCIENCE FOUNDATION	30,200	500	1,500	-	15,410	12,690	100	-	-	-
NUCLEAR REGULATORY COMMISSION	8,612	-	58	6,283	46	1,777	-	448	-	-
SMITHSONIAN INSTITUTION	957	957	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	50,789	50,789	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	5,055	5,055	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-72. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1980 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	FOREIGN
TOTAL, ALL AGENCIES	2,024,695	674,140	556,626	277,354	48,956	431,554	6,356	22,137	-	7,572
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	41,285	41,285	-	-	-	-	-	-	-	-
FOREST SERVICE	3,600	3,600	-	-	-	-	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	37,685	37,685	-	-	-	-	-	-	-	-
AGRICULTURAL RESEARCH	37,685	37,685	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	4,686	3,983	703	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	500	-	500	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	303	100	203	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	3,883	3,883	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	368,700	354,129	12,520	-	1,608	20	423	-	-	-
DEPARTMENT OF THE ARMY	17,300	17,300	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	71,500	71,500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	255,800	255,800	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	24,100	9,529	12,520	-	1,608	20	423	-	-	-
DEPARTMENT OF ENERGY	1,284,311	5,892	532,319	270,165	25,225	420,904	2,055	21,439	-	6,312
DEPT OF HLTH & HUMAN SERVICES, TOTAL	41,821	30,821	-	-	9,000	-	2,000	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	792	792	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	730	730	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	40,299	29,299	-	-	9,000	-	2,000	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	11,271	9,471	700	1,100	-	-	-	-	-	-
BUREAU OF MINES	2,152	2,152	-	-	-	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,100	-	-	1,100	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	700	-	700	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	7,319	7,319	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	25,800	18,857	6,943	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	8,400	8,400	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	7,000	7,000	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	10,200	3,257	6,943	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	40	40	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	40	40	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,700	2,700	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,000	2,000	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	7,414	12	1,241	-	3,113	-	1,788	-	-	1,260
AGENCY FOR INTERNAT'L DEVELOPMENT	4,464	12	1,241	-	935	-	1,788	-	-	488
INST FOR SCIEN & TECH COOPERATION	2,950	-	-	-	2,178	-	-	-	-	772
NATIONAL AERONAUTICS & SPACE ADMIN	156,100	152,520	-	-	-	3,580	-	-	-	-
NATIONAL SCIENCE FOUNDATION	19,300	900	2,200	-	10,010	6,100	90	-	-	-
NUCLEAR REGULATORY COMMISSION	7,737	-	-	6,089	-	950	-	698	-	-
SMITHSONIAN INSTITUTION	1,105	1,105	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	39,435	39,435	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	10,990	10,990	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-73. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY AND PERFORMER OF THE RESEARCH AND DEVELOPMENT THE PLANT SUPPORTS: FISCAL YEAR 1981 (ESTIMATED)

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL							
			UNITED STATES AND TERRITORIES							FOREIGN
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTI-TUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTI-TUTIONS	STATE AND LOCAL GOVTS	
TOTAL, ALL AGENCIES	1,977,564	682,381	611,897	252,105	37,940	362,792	5,643	14,515	-	10,291
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	37,340	32,340	-	-	-	5,000	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	37,340	32,340	-	-	-	5,000	-	-	-	-
AGRICULTURAL RESEARCH	32,340	32,340	-	-	-	-	-	-	-	-
COOPERATIVE RESEARCH	5,000	-	-	-	-	5,000	-	-	-	-
DEPARTMENT OF COMMERCE, TOTAL	1,364	425	939	-	-	-	-	-	-	-
MARITIME ADMINISTRATION	500	-	500	-	-	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	564	125	439	-	-	-	-	-	-	-
NAT'L OCEANIC & ATMOSPHERIC ADMIN	300	300	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	445,100	417,002	24,676	-	2,215	20	878	-	-	309
DEPARTMENT OF THE ARMY	16,500	16,500	-	-	-	-	-	-	-	-
DEPARTMENT OF THE NAVY	93,300	93,300	-	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	287,500	287,500	-	-	-	-	-	-	-	-
DEFENSE AGENCIES	47,800	19,702	24,676	-	2,215	20	878	-	-	309
DEPARTMENT OF ENERGY	1,212,396	6,983	573,694	243,285	22,750	341,777	2,020	13,835	-	8,052
DEPT OF HLTH & HUMAN SERVICES, TOTAL	54,408	53,408	-	-	1,000	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	5,425	5,425	-	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	26,558	26,558	-	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	22,425	21,425	-	-	1,000	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	9,220	7,020	1,200	1,000	-	-	-	-	-	-
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,000	-	-	1,000	-	-	-	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,200	-	1,200	-	-	-	-	-	-	-
US FISH & WILDLIFE SERVICE	7,020	7,020	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION, TOTAL	17,930	10,762	7,168	-	-	-	-	-	-	-
FEDERAL AVIATION ADMINISTRATION	6,600	6,600	-	-	-	-	-	-	-	-
FEDERAL HIGHWAY ADMINISTRATION	600	600	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMINISTRATION	10,530	3,362	7,168	-	-	-	-	-	-	-
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	200	200	-	-	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	50	50	-	-	-	-	-	-	-	-
CUSTOMS SERVICE	50	50	-	-	-	-	-	-	-	-
OTHER AGENCIES										
CONSUMER PRODUCT SAFETY COMMISSION	2,700	2,700	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	2,500	2,500	-	-	-	-	-	-	-	-
INTERNAT'L DEV COOPERATION AGENCY	10,174	4	1,220	-	4,375	-	2,645	-	-	1,930
AGENCY FOR INTERNAT'L DEVELOPMENT	6,951	4	1,220	-	1,671	-	2,645	-	-	1,411
INST FOR SCIEN & TECH COOPERATION	3,223	-	-	-	2,704	-	-	-	-	519
NATIONAL AERONAUTICS & SPACE ADMIN	120,000	110,705	-	-	-	9,295	-	-	-	-
NATIONAL SCIENCE FOUNDATION	16,900	1,300	3,000	-	7,600	4,900	100	-	-	-
NUCLEAR REGULATORY COMMISSION	10,300	-	-	7,820	-	1,800	-	680	-	-
SMITHSONIAN INSTITUTION	125	125	-	-	-	-	-	-	-	-
TENNESSEE VALLEY AUTHORITY	20,267	20,267	-	-	-	-	-	-	-	-
VETERANS ADMINISTRATION	16,790	16,790	-	-	-	-	-	-	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-74. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1979	ESTIMATES	
		1980	1981
TOTAL, ALL FIELDS	3,124,021	3,437,637	3,729,785
LIFE SCIENCES, TOTAL	1,797,614	1,960,139	2,077,899
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	947,039	1,031,734	1,101,199
ENVIRONMENTAL BIOLOGY	39,329	47,717	50,813
AGRICULTURAL	109,847	120,422	125,432
MEDICAL	623,933	687,766	723,700
LIFE SCIENCES, NEC	77,466	72,500	76,754
PSYCHOLOGY, TOTAL	89,554	96,456	105,785
BIOLOGICAL ASPECTS	27,667	29,555	31,534
SOCIAL ASPECTS	29,601	31,026	37,313
PSYCHOLOGICAL SCIENCES, NEC	32,286	35,875	36,938
PHYSICAL SCIENCES, TOTAL	402,616	453,320	511,638
ASTRONOMY	40,477	49,583	52,280
CHEMISTRY	139,344	155,229	171,716
PHYSICS	215,509	237,239	274,246
PHYSICAL SCIENCES, NEC	7,286	11,269	13,396
ENVIRONMENTAL SCIENCES, TOTAL	275,034	301,963	332,063
ATMOSPHERIC	70,800	74,218	82,843
GEOLOGICAL	78,205	92,051	98,256
OCEANOGRAPHY	108,785-	115,841	129,850
ENVIRONMENTAL SCIENCES, NEC	17,244	19,853	21,114
MATHEMATICS & COMPUTER SCIENCES, TOTAL	86,697	95,947	111,268
MATHEMATICS	41,206	45,953	55,906
COMPUTER SCIENCES	43,321	46,034	51,199
MATHEMATICS & COMPUTER SCIENCES, NEC	2,170	3,960	4,163
ENGINEERING, TOTAL	276,865	306,356	350,208
AERONAUTICAL	28,965	32,239	35,455
ASTRONAUTICAL	3,036	3,078	3,796
CHEMICAL	22,724	25,940	26,252
CIVIL	17,048	21,011	19,007
ELECTRICAL	56,080	64,939	71,119
MECHANICAL	28,301	33,700	40,619
METALLURGY & MATERIALS	51,056	60,337	74,533
ENGINEERING, NEC	69,655	65,112	79,427
SOCIAL SCIENCES, TOTAL	138,123	140,802	149,206
ANTHROPOLOGY	7,845	8,524	8,893
ECONOMICS	45,590	47,868	49,519
POLITICAL SCIENCE	5,150	5,103	5,760
SOCIOLOGY	24,079	24,806	28,242
SOCIAL SCIENCES, NEC	55,459	54,501	56,792
OTHER SCIENCES, NEC	57,518	82,654	91,719

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979, 1980, AND 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-75. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	3,124,021	1,797,614	89,554	402,616	275,034	86,697	276,865	138,123	57,513
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	198,103	145,103	-	8,473	1,182	387	6,833	36,125	-
AGRICULTURAL MARKETING SERVICE	25	25	-	-	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE ..	956	-	-	-	-	26	-	930	-
FOREST SERVICE	9,506	8,895	-	-	191	36	-	384	-
SCIENCE & EDUCATION ADMINISTRATION .	187,613	136,183	-	8,473	991	325	6,830	34,811	-
AGRICULTURAL RESEARCH	21,537	17,516	-	911	43	325	1,651	1,091	-
COOPERATIVE RESEARCH	166,076	118,667	-	7,562	948	-	5,179	33,720	-
DEPARTMENT OF DEFENSE, TOTAL	278,212	22,605	11,037	50,286	54,107	39,717	98,829	887	744
DEPARTMENT OF THE ARMY	40,114	9,818	1,396	6,766	3,256	4,365	14,370	106	37
DEPARTMENT OF THE NAVY	111,951	7,845	3,415	22,592	44,293	15,020	18,786	-	-
DEPARTMENT OF THE AIR FORCE	94,486	4,942	3,853	18,585	4,499	7,137	55,470	-	-
DEFENSE AGENCIES	31,661	-	2,373	2,343	2,059	13,195	10,203	781	707
DEPARTMENT OF ENERGY	203,754	31,103	-	96,449	22,572	3,804	43,410	1,412	5,004
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	1,706,438	1,476,735	66,836	42,627	-	3,327	26,081	62,352	28,483
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	115,154	53,417	36,500	432	-	343	43	21,542	2,877
CENTER FOR DISEASE CONTROL	6,670	6,670	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	8,493	8,493	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	4,968	-	-	-	-	-	-	4,968	-
HEALTH RESOURCES ADMINISTRATION	4,794	-	-	-	-	-	-	4,794	-
HEALTH SERVICES ADMINISTRATION	3,497	3,497	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	1,541,965	1,404,658	30,336	42,195	-	2,984	26,038	10,151	25,603
OFFICE OF ASST'T SECY FOR HEALTH ...	12,404	-	-	-	-	-	-	12,404	-
OFF OF HUMAN DEVELOPMENT SVCS	4,890	-	-	-	-	-	-	4,890	-
OFFICE OF THE SECRETARY	2,621	-	-	-	-	-	-	2,621	-
SOCIAL SECURITY ADMINISTRATION	982	-	-	-	-	-	-	982	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN ...	125,296	8,342	677	48,791	39,553	1,471	23,617	149	2,696
NATIONAL SCIENCE FOUNDATION	612,221	113,726	11,004	155,990	157,620	37,991	78,098	37,198	20,594

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-76. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIO-LOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHO-LOGICAL SCIENCES NEC	TOTAL	BIO-LOGICAL	ENVIRON-MENTAL BIOLOGY	AGRI-CULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	89,554	27,667	29,601	32,286	1,797,614	947,039	39,329	109,847	623,933	77,456
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	145,103	29,846	534	108,760	6,963	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	25	-	-	25	-	-
FOREST SERVICE	-	-	-	-	8,895	8,895	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	-	-	-	-	136,183	19,951	534	108,735	6,963	-
AGRICULTURAL RESEARCH	-	-	-	-	17,516	4,674	534	12,208	100	-
COOPERATIVE RESEARCH	-	-	-	-	118,667	15,277	-	96,527	6,863	-
DEPARTMENT OF DEFENSE, TOTAL	11,037	506	9,321	1,210	22,695	9,608	1,190	50	11,704	53
DEPARTMENT OF THE ARMY	1,396	42	1,354	-	9,818	968	335	50	8,465	-
DEPARTMENT OF THE NAVY	3,415	-	2,595	820	7,845	5,092	-	-	2,753	-
DEPARTMENT OF THE AIR FORCE	3,853	-	3,463	390	4,942	3,548	855	-	486	53
DEFENSE AGENCIES	2,373	464	1,909	-	-	-	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	31,103	24,134	-	1,033	66	5,870
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	66,836	19,641	16,617	30,578	1,476,735	809,888	-	-	602,394	64,453
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	36,500	19,641	16,617	242	53,417	35,771	-	-	3,801	13,845
CENTER FOR DISEASE CONTROL	-	-	-	-	6,670	-	-	-	6,670	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	8,493	7,506	-	-	987	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	3,497	-	-	-	3,497	-
NATIONAL INSTITUTES OF HEALTH	30,336	-	-	30,336	1,404,658	766,611	-	-	587,439	50,608
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	677	86	125	466	8,342	2,407	344	4	2,806	2,781
NATIONAL SCIENCE FOUNDATION	11,004	7,434	3,538	32	113,726	72,156	37,261	-	-	4,309

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-77. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOS-PHERIC	GEO-LOGICAL	OCEAN-OGRAPHY	ENVIRON-MENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	402,616	40,477	139,344	215,509	7,286	275,034	70,800	78,205	108,785	17,244
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	8,473	-	8,396	77	-	1,182	1,092	90	-	-
FOREST SERVICE	-	-	-	-	-	191	107	84	-	-
SCIENCE & EDUCATION ADMINISTRATION .	8,473	-	8,396	77	-	991	985	6	-	-
AGRICULTURAL RESEARCH	911	-	834	77	-	43	37	6	-	-
COOPERATIVE RESEARCH	7,562	-	7,562	-	-	948	948	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	50,286	3,154	12,908	34,096	128	54,107	8,048	5,274	35,986	4,799
DEPARTMENT OF THE ARMY	6,766	-	3,451	3,315	-	3,256	2,133	733	-	390
DEPARTMENT OF THE NAVY	22,592	1,177	3,168	18,247	-	44,293	1,778	2,394	35,808	4,313
DEPARTMENT OF THE AIR FORCE	18,585	1,977	6,240	10,325	43	4,499	3,530	873	-	96
DEFENSE AGENCIES	2,343	-	49	2,209	85	2,059	607	1,274	178	-
DEPARTMENT OF ENERGY	96,449	-	14,146	80,288	2,015	22,572	916	7,824	7,430	6,402
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	42,627	-	41,190	1,437	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	432	-	432	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	42,195	-	40,758	1,437	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	48,791	21,202	3,908	18,538	5,143	39,553	20,360	12,634	825	5,734
NATIONAL SCIENCE FOUNDATION	155,990	16,121	58,796	81,073	-	157,620	40,384	52,383	64,544	339

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-79. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	276,865	28,965	3,036	22,724	17,048	56,080	28,301	51,056	69,655
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	6,830	-	-	80	154	22	111	-	6,463
SCIENCE & EDUCATION ADMINISTRATION	6,830	-	-	80	154	22	111	-	6,463
AGRICULTURAL RESEARCH	1,651	-	-	80	154	22	111	-	1,284
COOPERATIVE RESEARCH	5,179	-	-	-	-	-	-	-	5,179
DEPARTMENT OF DEFENSE, TOTAL	98,829	17,587	1,916	6,810	955	35,869	15,663	18,529	1,500
DEPARTMENT OF THE ARMY	14,370	1,238	-	35	765	7,044	1,907	3,043	338
DEPARTMENT OF THE NAVY	18,786	824	-	5,304	-	5,036	3,696	3,501	425
DEPARTMENT OF THE AIR FORCE	55,470	15,518	1,861	1,471	190	17,948	10,060	7,734	688
DEFENSE AGENCIES	10,203	7	55	-	-	5,841	-	4,251	49
DEPARTMENT OF ENERGY	43,410	-	222	3,456	-	829	592	13,090	25,221
DEPT OF HLTH & HUMAN SERVICES, TOTAL	26,081	-	-	-	-	-	-	-	26,081
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	43	-	-	-	-	-	-	-	43
NATIONAL INSTITUTES OF HEALTH	26,038	-	-	-	-	-	-	-	26,038
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	23,617	10,511	898	75	55	3,100	1,875	3,426	3,677
NATIONAL SCIENCE FOUNDATION	78,098	867	-	12,303	15,884	16,260	10,060	16,011	6,713

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-79. FEDERAL OBLIGATIONS FOR RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHE-MATICS	COMPUTER SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES NEC	TOTAL	ANTHRO-POLOGY	ECONOM-ICS	POLITI-CAL SCIENCE	SOCI-OLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	86,697	41,206	43,321	2,170	138,123	7,845	45,590	5,150	24,079	55,459
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	387	387	-	-	36,125	-	33,955	-	2,041	129
ECON, STAT & COOPERATIVES SERVICE	26	26	-	-	930	-	898	-	19	13
FOREST SERVICE	36	36	-	-	384	-	384	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	325	325	-	-	34,811	-	32,673	-	2,022	115
AGRICULTURAL RESEARCH	325	325	-	-	1,091	-	738	-	237	116
COOPERATIVE RESEARCH	-	-	-	-	33,720	-	31,935	-	1,785	-
DEPARTMENT OF DEFENSE, TOTAL	39,717	13,167	24,723	1,827	887	-	-	781	89	17
DEPARTMENT OF THE ARMY	4,365	2,749	1,616	-	106	-	-	-	89	17
DEPARTMENT OF THE NAVY	15,020	6,434	8,397	189	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	7,137	3,984	2,961	192	-	-	-	-	-	-
DEFENSE AGENCIES	13,195	-	11,749	1,446	781	-	-	781	-	-
DEPARTMENT OF ENERGY	3,804	2,304	1,500	-	1,412	-	-	454	-	958
DEPT OF HLTH & HUMAN SERVICES, TOTAL	3,327	2,984	-	343	62,352	2,294	2,723	535	18,469	38,331
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	343	-	-	343	21,542	2,294	357	356	16,372	2,163
HEALTH CARE FINANCING ADMIN	-	-	-	-	4,968	-	-	-	-	4,968
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	4,794	-	-	-	-	4,794
NATIONAL INSTITUTES OF HEALTH	2,984	2,984	-	-	10,151	-	-	-	-	10,151
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	12,404	-	532	179	1,310	10,383
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	4,890	-	-	-	-	4,890
OFFICE OF THE SECRETARY	-	-	-	-	2,621	-	1,834	-	787	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	982	-	-	-	-	982
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	1,471	1,039	432	-	149	-	-	15	-	134
NATIONAL SCIENCE FOUNDATION	37,991	21,325	16,666	-	37,198	5,551	8,912	3,365	3,480	15,890

NOTE: THE RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 94 PERCENT OF TOTAL FEDERAL RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-80. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1979	ESTIMATES	
		1980	1981
TOTAL, ALL FIELDS	2,036,162	2,258,981	2,485,796
LIFE SCIENCES, TOTAL	1,138,938	1,238,820	1,330,355
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	702,555	763,620	820,946
ENVIRONMENTAL BIOLOGY	38,720	47,225	50,295
AGRICULTURAL	45,841	49,553	57,159
MEDICAL	310,128	338,476	360,539
LIFE SCIENCES, NEC	41,694	39,946	41,417
PSYCHOLOGY, TOTAL	42,004	44,582	49,355
BIOLOGICAL ASPECTS	15,584	16,940	17,946
SOCIAL ASPECTS	16,240	16,611	19,389
PSYCHOLOGICAL SCIENCES, NEC	10,180	11,031	12,020
PHYSICAL SCIENCES, TOTAL	320,002	365,639	408,797
ASTRONOMY	38,041	46,833	49,480
CHEMISTRY	112,814	127,858	144,382
PHYSICS	164,640	185,315	208,846
PHYSICAL SCIENCES, NEC	4,507	5,633	6,089
ENVIRONMENTAL SCIENCES, TOTAL	228,783	251,658	279,722
ATMOSPHERIC	60,912	61,869	70,012
GEOLOGICAL	69,552	84,141	90,100
OCEANOGRAPHY	91,845	99,069	112,362
ENVIRONMENTAL SCIENCES, NEC	6,474	6,579	7,248
MATHEMATICS & COMPUTER SCIENCES, TOTAL	66,883	75,802	88,556
MATHEMATICS	37,068	41,699	50,166
COMPUTER SCIENCES	28,901	32,218	36,035
MATHEMATICS & COMPUTER SCIENCES, NEC	914	1,885	2,355
ENGINEERING, TOTAL	157,119	181,370	217,911
AERONAUTICAL	17,896	20,987	23,871
ASTRONAUTICAL	705	700	800
CHEMICAL	12,548	13,985	16,055
CIVIL	9,590	12,208	11,675
ELECTRICAL	34,049	38,787	49,429
MECHANICAL	19,926	22,961	28,387
METALLURGY & MATERIALS	45,907	53,910	68,218
ENGINEERING, NEC	16,498	17,832	19,476
SOCIAL SCIENCES, TOTAL	56,886	59,383	64,680
ANTHROPOLOGY	5,829	6,399	7,221
ECONOMICS	21,126	22,567	23,379
POLITICAL SCIENCE	3,290	4,295	4,776
SOCIOLOGY	10,178	11,037	12,440
SOCIAL SCIENCES, NEC	16,463	15,085	16,864
OTHER SCIENCES, NEC	25,547	41,727	46,420

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979, 1980, AND 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-81. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSYCHOLOGY	PHYSICAL SCIENCES	ENVIRONMENTAL SCIENCES	MATHEMATICS AND COMPUTER SCIENCES	ENGINEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	2,036,162	1,138,938	42,004	320,002	228,783	66,883	157,1[illegible]	56,886	25,547
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	83,967	65,499	-	3,109	510	86	2,280	12,483	-
ECON, STAT & COOPERATIVES SERVICE ..	172	-	-	-	-	2	-	170	-
FOREST SERVICE	5,964	5,490	-	-	156	14	-	304	-
SCIENCE & EDUCATION ADMINISTRATION .	77,831	60,009	-	3,109	354	70	2,280	12,009	-
AGRICULTURAL RESEARCH	9,944	8,810	-	447	20	70	457	140	-
COOPERATIVE RESEARCH	67,887	51,199	-	2,662	334	-	1,823	11,869	-
DEPARTMENT OF DEFENSE, TOTAL	163,379	11,650	8,149	28,605	41,560	24,273	49,047	95	-
DEPARTMENT OF THE ARMY	24,479	2,218	1,333	5,381	1,574	3,514	10,364	95	-
DEPARTMENT OF THE NAVY	74,473	7,381	2,595	11,431	35,247	8,331	9,488	-	-
DEPARTMENT OF THE AIR FORCE	46,400	2,051	2,362	11,526	3,614	4,440	22,407	-	-
DEFENSE AGENCIES	18,027	-	1,859	267	1,125	7,988	6,788	-	-
DEPARTMENT OF ENERGY	97,215	9,294	-	68,533	1,840	3,455	14,079	-	14
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	1,020,679	935,629	22,685	27,964	-	1,493	8,768	16,337	7,803
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	47,284	25,905	12,991	220	-	120	15	6,278	1,755
NATIONAL INSTITUTES OF HEALTH	965,813	909,724	9,694	27,744	-	1,373	8,753	2,474	6,048
OFFICE OF ASST'T SECY FOR HEALTH ...	5,504	-	-	-	-	-	-	5,504	-
OFFICE OF THE SECRETARY	2,081	-	-	-	-	-	-	2,081	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN ...	96,785	5,840	484	41,665	29,307	1,062	16,620	134	1,673
NATIONAL SCIENCE FOUNDATION	574,137	111,026	10,686	150,126	155,566	36,514	66,325	27,837	16,057

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-82. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	42,004	15,584	16,240	10,180	1,138,938	702,555	38,720	45,841	310,128	41,694
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	65,499	17,003	209	45,841	2,446	-
FOREST SERVICE	-	-	-	-	5,490	5,490	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION .	-	-	-	-	60,009	11,513	209	45,841	2,446	-
AGRICULTURAL RESEARCH	-	-	-	-	8,810	2,993	209	5,578	30	-
COOPERATIVE RESEARCH	-	-	-	-	51,199	8,520	-	40,263	2,416	-
DEPARTMENT OF DEFENSE, TOTAL	8,149	464	7,685	-	11,650	6,835	906	-	3,909	-
DEPARTMENT OF THE ARMY	1,333	-	1,333	-	2,218	703	85	-	1,430	-
DEPARTMENT OF THE NAVY	2,595	-	2,595	-	7,381	4,902	-	-	2,479	-
DEPARTMENT OF THE AIR FORCE	2,362	-	2,362	-	2,051	1,230	821	-	-	-
DEFENSE AGENCIES	1,859	464	1,395	-	-	-	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	9,294	9,294	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL .	22,685	7,600	5,245	9,840	935,629	595,138	-	-	302,529	37,962
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	12,991	7,600	5,245	146	25,905	19,638	-	-	1,197	5,070
NATIONAL INSTITUTES OF HEALTH	9,694	-	-	9,694	909,724	575,500	-	-	301,332	32,892
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN ...	484	86	90	308	5,840	2,282	344	-	1,244	1,970
NATIONAL SCIENCE FOUNDATION	10,686	7,434	3,220	32	111,026	72,003	37,261	-	-	1,762

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-83. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	320,002	38,041	112,814	164,640	4,507	228,783	60,912	69,552	91,845	6,474
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	3,109	-	3,079	30	-	510	429	81	-	-
FOREST SERVICE	-	-	-	-	-	156	77	79	-	-
SCIENCE & EDUCATION ADMINISTRATION	3,109	-	3,079	30	-	354	352	2	-	-
AGRICULTURAL RESEARCH	447	-	417	30	-	20	18	2	-	-
COOPERATIVE RESEARCH	2,662	-	2,662	-	-	334	334	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	28,605	3,154	10,661	14,790	-	41,560	5,655	4,707	26,864	4,334
DEPARTMENT OF THE ARMY	5,381	-	2,642	2,739	-	1,574	996	557	-	21
DEPARTMENT OF THE NAVY	11,431	1,177	3,168	7,086	-	35,247	1,778	2,394	26,762	4,313
DEPARTMENT OF THE AIR FORCE	11,526	1,977	4,802	4,747	-	3,614	2,881	733	-	-
DEFENSE AGENCIES	267	-	49	218	-	1,125	-	1,023	102	-
DEPARTMENT OF ENERGY	68,533	-	12,806	55,577	150	1,840	-	1,790	-	50
DEPT OF HLTH & HUMAN SERVICES, TOTAL	27,964	-	27,221	743	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	220	-	220	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	27,744	-	27,001	743	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	41,665	18,766	3,705	14,837	4,357	29,307	14,515	12,318	479	1,995
NATIONAL SCIENCE FOUNDATION	150,126	16,121	55,342	78,663	-	155,566	40,313	50,656	64,502	95

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-84. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	157,119	17,896	705	12,548	9,590	34,049	19,926	45,907	16,498
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	2,280	-	-	10	50	10	30	-	2,180
SCIENCE & EDUCATION ADMINISTRATION	2,280	-	-	10	50	10	30	-	2,180
AGRICULTURAL RESEARCH	457	-	-	10	50	10	30	-	357
COOPERATIVE RESEARCH	1,823	-	-	-	-	-	-	-	1,823
DEPARTMENT OF DEFENSE, TOTAL	49,047	8,675	-	-	97	16,115	8,733	15,418	9
DEPARTMENT OF THE ARMY	10,364	993	-	-	32	5,356	1,478	2,496	9
DEPARTMENT OF THE NAVY	9,488	824	-	-	-	2,150	3,696	2,818	-
DEPARTMENT OF THE AIR FORCE	22,407	6,858	-	-	65	5,090	3,559	6,835	-
DEFENSE AGENCIES	6,788	-	-	-	-	3,519	-	3,269	-
DEPARTMENT OF ENERGY	14,079	-	-	564	-	90	195	13,090	140
DEPT OF HLTH & HUMAN SERVICES, TOTAL	8,768	-	-	-	-	-	-	-	8,768
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	15	-	-	-	-	-	-	-	15
NATIONAL INSTITUTES OF HEALTH	8,753	-	-	-	-	-	-	-	8,753
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	16,620	8,354	705	62	55	1,694	934	3,186	1,630
NATIONAL SCIENCE FOUNDATION	66,325	867	-	11,912	9,388	16,140	10,034	14,213	3,771

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-85. FEDERAL OBLIGATIONS FOR BASIC RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	66,883	37,068	28,901	914	56,896	5,829	21,126	3,290	10,178	16,463
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	86	86	-	-	12,483	-	11,798	-	679	6
ECON, STAT & COOPERATIVES SERVICE	2	2	-	-	170	-	153	-	11	6
FOREST SERVICE	14	14	-	-	304	-	304	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	70	70	-	-	12,009	-	11,341	-	668	-
AGRICULTURAL RESEARCH	70	70	-	-	140	-	100	-	40	-
COOPERATIVE RESEARCH	-	-	-	-	11,869	-	11,241	-	628	-
DEPARTMENT OF DEFENSE, TOTAL	24,273	11,441	12,038	794	95	-	-	-	89	6
DEPARTMENT OF THE ARMY	3,514	2,690	824	-	95	-	-	-	89	6
DEPARTMENT OF THE NAVY	8,331	4,988	3,343	-	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	4,440	3,763	677	-	-	-	-	-	-	-
DEFENSE AGENCIES	7,988	-	7,194	794	-	-	-	-	-	-
DEPARTMENT OF ENERGY	3,455	2,246	1,209	-	-	-	-	-	-	-
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,493	1,373	-	120	16,337	278	1,817	205	6,215	7,822
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	120	-	-	120	6,278	278	125	125	5,009	741
NATIONAL INSTITUTES OF HEALTH	1,373	1,373	-	-	2,474	-	-	-	-	2,474
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	5,504	-	236	80	581	4,607
OFFICE OF THE SECRETARY	-	-	-	-	2,081	-	1,456	-	625	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	1,062	914	148	-	134	-	-	-	-	134
NATIONAL SCIENCE FOUNDATION	36,514	21,008	15,506	-	27,837	5,551	7,511	3,085	3,195	8,495

NOTE: THE BASIC RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 99 PERCENT OF TOTAL FEDERAL BASIC RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-86. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY DETAILED FIELD OF SCIENCE: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

FIELD OF SCIENCE	ACTUAL, 1979	ESTIMATES	
		1980	1981
TOTAL, ALL FIELDS	1,087,859	1,178,656	1,243,989
LIFE SCIENCES, TOTAL	658,676	721,319	747,543
BIOLOGICAL (EXCLUDING ENVIRONMENTAL)	244,484	268,114	290,253
ENVIRONMENTAL BIOLOGY	609	492	518
AGRICULTURAL	64,006	70,869	68,274
MEDICAL	313,805	349,290	363,161
LIFE SCIENCES, NEC	35,772	32,554	35,337
PSYCHOLOGY, TOTAL	47,550	51,874	56,430
BIOLOGICAL ASPECTS	12,083	12,615	13,588
SOCIAL ASPECTS	13,361	14,415	17,924
PSYCHOLOGICAL SCIENCES, NEC	22,106	24,844	24,918
PHYSICAL SCIENCES, TOTAL	82,614	87,681	102,841
ASTRONOMY	2,436	2,750	2,800
CHEMISTRY	26,530	27,371	27,334
PHYSICS	50,869	51,924	65,400
PHYSICAL SCIENCES, NEC	2,779	5,636	7,307
ENVIRONMENTAL SCIENCES, TOTAL	46,251	50,305	52,341
ATMOSPHERIC	9,888	12,349	12,831
GEOLOGICAL	8,653	7,910	8,156
OCEANOGRAPHY	16,940	16,772	17,488
ENVIRONMENTAL SCIENCES, NEC	10,770	13,274	13,866
MATHEMATICS & COMPUTER SCIENCES, TOTAL	19,814	20,145	22,712
MATHEMATICS	4,138	4,254	5,740
COMPUTER SCIENCES	14,420	13,816	15,164
MATHEMATICS & COMPUTER SCIENCES, NEC	1,256	2,075	1,808
ENGINEERING, TOTAL	119,746	124,986	132,297
AERONAUTICAL	11,069	11,252	11,584
ASTRONAUTICAL	2,331	2,378	2,996
CHEMICAL	10,176	11,955	10,197
CIVIL	7,458	8,803	7,332
ELECTRICAL	22,031	26,152	21,690
MECHANICAL	8,375	10,739	12,232
METALLURGY & MATERIALS	5,149	6,427	6,315
ENGINEERING, NEC	53,157	47,280	59,951
SOCIAL SCIENCES, TOTAL	81,237	81,419	84,526
ANTHROPOLOGY	2,016	2,125	1,672
ECONOMICS	24,464	25,301	26,140
POLITICAL SCIENCE	1,860	808	984
SOCIOLOGY	13,901	13,769	15,802
SOCIAL SCIENCES, NEC	38,996	39,416	39,928
OTHER SCIENCES, NEC	31,971	40,927	45,299

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979, 1980, AND 1981.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-87. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES, BY AGENCY AND FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	TOTAL	LIFE SCIENCES	PSY-CHOLOGY	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICS AND COM-PUTER SCIENCES	ENGI-NEERING	SOCIAL SCIENCES	OTHER SCIENCES NEC
TOTAL, ALL AGENCIES	1,087,859	658,676	47,550	82,614	46,251	19,814	119,746	91,237	31,971
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	114,133	79,604	-	5,364	672	301	4,550	23,642	-
AGRICULTURAL MARKETING SERVICE	25	25	-	-	-	-	-	-	-
ECON, STAT & COOPERATIVES SERVICE	784	-	-	-	-	24	-	760	-
FOREST SERVICE	3,542	3,405	-	-	35	22	-	80	-
SCIENCE & EDUCATION ADMINISTRATION	109,782	76,174	-	5,364	637	255	4,550	22,802	-
AGRICULTURAL RESEARCH	11,593	8,706	-	464	23	255	1,194	951	-
COOPERATIVE RESEARCH	98,189	67,468	-	4,900	614	-	3,356	21,851	-
DEPARTMENT OF DEFENSE, TOTAL	114,833	10,955	2,888	21,681	12,547	15,444	49,782	792	744
DEPARTMENT OF THE ARMY	15,635	7,600	63	1,385	1,682	851	4,006	11	37
DEPARTMENT OF THE NAVY	37,478	464	820	11,161	9,046	6,689	9,298	-	-
DEPARTMENT OF THE AIR FORCE	48,086	2,891	1,491	7,059	885	2,697	33,063	-	-
DEFENSE AGENCIES	13,634	-	514	2,076	934	5,207	3,415	781	707
DEPARTMENT OF ENERGY	106,539	21,809	-	27,916	20,732	349	29,331	1,412	4,990
DEPT OF HLTH & HUMAN SERVICES, TOTAL	685,759	541,106	44,151	14,663	-	1,834	17,313	46,015	20,677
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	67,870	27,512	23,509	212	-	223	28	15,264	1,122
CENTER FOR DISEASE CONTROL	6,670	6,670	-	-	-	-	-	-	-
FOOD & DRUG ADMINISTRATION	8,493	8,493	-	-	-	-	-	-	-
HEALTH CARE FINANCING ADMIN	4,968	-	-	-	-	-	-	4,968	-
HEALTH RESOURCES ADMINISTRATION	4,794	-	-	-	-	-	-	4,794	-
HEALTH SERVICES ADMINISTRATION	3,497	3,497	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	576,155	494,934	20,642	14,451	-	1,611	17,285	7,677	19,555
OFFICE OF ASST'T SECY FOR HEALTH	6,900	-	-	-	-	-	-	6,900	-
OFF OF HUMAN DEVELOPMENT SVCS	4,890	-	-	-	-	-	-	4,890	-
OFFICE OF THE SECRETARY	540	-	-	-	-	-	-	540	-
SOCIAL SECURITY ADMINISTRATION	982	-	-	-	-	-	-	982	-
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	28,511	2,502	193	7,126	10,246	409	6,997	15	1,023
NATIONAL SCIENCE FOUNDATION	38,084	2,700	318	5,864	2,054	1,477	11,773	9,361	4,537

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-98. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PSYCHOLOGY AND LIFE SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PSYCHOLOGY				LIFE SCIENCES					
	TOTAL	BIOLOGICAL ASPECTS	SOCIAL ASPECTS	PSYCHOLOGICAL SCIENCES NEC	TOTAL	BIOLOGICAL	ENVIRONMENTAL BIOLOGY	AGRICULTURAL	MEDICAL	LIFE SCIENCES NEC
TOTAL, ALL AGENCIES	47,550	12,083	13,361	22,106	658,676	244,484	609	64,336	313,905	35,772
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	-	-	-	-	79,694	11,843	325	62,919	4,517	-
AGRICULTURAL MARKETING SERVICE	-	-	-	-	25	-	-	25	-	-
FOREST SERVICE	-	-	-	-	3,405	3,405	-	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	-	-	-	-	76,174	8,438	325	62,894	4,517	-
AGRICULTURAL RESEARCH	-	-	-	-	8,706	1,681	325	6,630	70	-
COOPERATIVE RESEARCH	-	-	-	-	67,468	6,757	-	56,264	4,447	-
DEPARTMENT OF DEFENSE, TOTAL	2,888	42	1,636	1,210	10,955	2,773	284	50	7,795	53
DEPARTMENT OF THE ARMY	63	42	21	-	7,600	265	250	50	7,035	-
DEPARTMENT OF THE NAVY	820	-	-	820	464	190	-	-	274	-
DEPARTMENT OF THE AIR FORCE	1,491	-	1,101	390	2,891	2,318	34	-	486	53
DEFENSE AGENCIES	514	-	514	-	-	-	-	-	-	-
DEPARTMENT OF ENERGY	-	-	-	-	21,809	14,840	-	1,033	66	5,870
DEPT OF HLTH & HUMAN SERVICES, TOTAL	44,151	12,041	11,372	20,738	541,106	214,750	-	-	299,865	26,491
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	23,509	12,041	11,372	96	27,512	16,133	-	-	2,604	8,775
CENTER FOR DISEASE CONTROL	-	-	-	-	6,670	-	-	-	6,670	-
FOOD & DRUG ADMINISTRATION	-	-	-	-	8,493	7,506	-	-	987	-
HEALTH SERVICES ADMINISTRATION	-	-	-	-	3,497	-	-	-	3,497	-
NATIONAL INSTITUTES OF HEALTH	20,642	-	-	20,642	494,934	191,111	-	-	286,107	17,716
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	193	-	35	158	2,502	125	-	4	1,562	811
NATIONAL SCIENCE FOUNDATION	318	-	318	-	2,700	153	-	-	-	2,547

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN PHYSICAL AND ENVIRONMENTAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	PHYSICAL SCIENCES					ENVIRONMENTAL SCIENCES				
	TOTAL	ASTRONOMY	CHEMISTRY	PHYSICS	PHYSICAL SCIENCES NEC	TOTAL	ATMOSPHERIC	GEOLOGICAL	OCEANOGRAPHY	ENVIRONMENTAL SCIENCES NEC
TOTAL, ALL AGENCIES	82,614	2,436	26,530	50,869	2,779	46,251	9,888	8,653	16,940	10,770
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	5,364	-	5,317	47	-	672	663	9	-	-
FOREST SERVICE	-	-	-	-	-	35	30	5	-	-
SCIENCE & EDUCATION ADMINISTRATION	5,364	-	5,317	47	-	637	633	4	-	-
AGRICULTURAL RESEARCH	464	-	417	47	-	23	19	4	-	-
COOPERATIVE RESEARCH	4,900	-	4,900	-	-	614	614	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	21,681	-	2,247	19,306	128	12,547	2,393	567	9,122	465
DEPARTMENT OF THE ARMY	1,385	-	809	576	-	1,682	1,137	176	-	369
DEPARTMENT OF THE NAVY	11,161	-	-	11,161	-	9,046	-	-	9,046	-
DEPARTMENT OF THE AIR FORCE	7,059	-	1,438	5,578	43	885	649	140	-	96
DEFENSE AGENCIES	2,076	-	-	1,991	85	934	607	251	76	-
DEPARTMENT OF ENERGY	27,916	-	1,340	24,711	1,865	20,732	916	6,034	7,430	6,352
DEPT OF HLTH & HUMAN SERVICES, TOTAL	14,663	-	13,969	694	-	-	-	-	-	-
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	212	-	212	-	-	-	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	14,451	-	13,757	694	-	-	-	-	-	-
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	7,126	2,436	203	3,701	786	10,246	5,845	316	346	3,739
NATIONAL SCIENCE FOUNDATION	5,864	-	3,454	2,410	-	2,054	71	1,727	42	214

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-91. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN ENGINEERING, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ENGINEERING								
	TOTAL	AERONAUTICAL	ASTRONAUTICAL	CHEMICAL	CIVIL	ELECTRICAL	MECHANICAL	METALLURGY AND MATERIALS	ENGINEERING NEC
TOTAL, ALL AGENCIES	119,746	11,069	2,331	10,176	7,458	22,031	8,375	5,149	53,157
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	4,550	-	-	70	104	12	81	-	4,283
SCIENCE & EDUCATION ADMINISTRATION	4,550	-	-	70	104	12	81	-	4,283
AGRICULTURAL RESEARCH	1,194	-	-	70	104	12	81	-	927
COOPERATIVE RESEARCH	3,356	-	-	-	-	-	-	-	3,356
DEPARTMENT OF DEFENSE, TOTAL	49,782	8,912	1,916	6,810	858	19,754	6,930	3,111	1,491
DEPARTMENT OF THE ARMY	4,006	245	-	35	733	1,688	429	547	329
DEPARTMENT OF THE NAVY	9,298	-	-	5,304	-	2,886	-	683	425
DEPARTMENT OF THE AIR FORCE	33,063	8,660	1,861	1,471	125	12,858	6,501	899	688
DEFENSE AGENCIES	3,415	7	55	-	-	2,322	-	982	49
DEPARTMENT OF ENERGY	29,331	-	222	2,892	-	739	397	-	25,081
DEPT OF HLTH & HUMAN SERVICES, TOTAL	17,313	-	-	-	-	-	-	-	17,313
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	28	-	-	-	-	-	-	-	28
NATIONAL INSTITUTES OF HEALTH	17,285	-	-	-	-	-	-	-	17,285
OTHER AGENCIES									
NATIONAL AERONAUTICS & SPACE ADMIN	6,997	2,157	193	13	-	1,406	941	240	2,047
NATIONAL SCIENCE FOUNDATION	11,773	-	-	391	6,496	120	26	1,798	2,942

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-91. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH PERFORMED AT UNIVERSITIES AND COLLEGES IN MATHEMATICS AND COMPUTER SCIENCES AND IN SOCIAL SCIENCES, BY AGENCY AND DETAILED FIELD OF SCIENCE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	MATHEMATICS AND COMPUTER SCIENCES				SOCIAL SCIENCES					
	TOTAL	MATHEMATICS	COMPUTER SCIENCES	MATHEMATICS AND COMPUTER SCIENCES NEC	TOTAL	ANTHROPOLOGY	ECONOMICS	POLITICAL SCIENCE	SOCIOLOGY	SOCIAL SCIENCES NEC
TOTAL, ALL AGENCIES	19,814	4,138	14,420	1,256	81,237	2,016	24,464	1,860	13,901	33,996
DEPARTMENTS										
DEPARTMENT OF AGRICULTURE, TOTAL	301	301	-	-	23,642	-	22,157	-	1,362	123
ECON, STAT & COOPERATIVES SERVICE	24	24	-	-	760	-	745	-	8	7
FOREST SERVICE	22	22	-	-	80	-	80	-	-	-
SCIENCE & EDUCATION ADMINISTRATION	255	255	-	-	22,802	-	21,332	-	1,354	116
AGRICULTURAL RESEARCH	255	255	-	-	951	-	638	-	197	116
COOPERATIVE RESEARCH	-	-	-	-	21,851	-	20,694	-	1,157	-
DEPARTMENT OF DEFENSE, TOTAL	15,444	1,726	12,685	1,033	792	-	-	791	-	11
DEPARTMENT OF THE ARMY	851	59	792	-	11	-	-	-	-	11
DEPARTMENT OF THE NAVY	6,689	1,446	5,054	189	-	-	-	-	-	-
DEPARTMENT OF THE AIR FORCE	2,697	221	2,284	192	-	-	-	-	-	-
DEFENSE AGENCIES	5,207	-	4,555	652	781	-	-	791	-	-
DEPARTMENT OF ENERGY	349	58	291	-	1,412	-	-	454	-	958
DEPT OF HLTH & HUMAN SERVICES, TOTAL	1,834	1,611	-	223	46,015	2,016	906	330	12,254	30,509
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	223	-	-	223	15,264	2,016	232	231	11,363	1,422
HEALTH CARE FINANCING ADMIN	-	-	-	-	4,968	-	-	-	-	4,968
HEALTH RESOURCES ADMINISTRATION	-	-	-	-	4,794	-	-	-	-	4,794
NATIONAL INSTITUTES OF HEALTH	1,611	1,611	-	-	7,677	-	-	-	-	7,677
OFFICE OF ASST'T SECY FOR HEALTH	-	-	-	-	6,900	-	296	99	729	5,776
OFF OF HUMAN DEVELOPMENT SVCS	-	-	-	-	4,890	-	-	-	-	4,890
OFFICE OF THE SECRETARY	-	-	-	-	540	-	378	-	162	-
SOCIAL SECURITY ADMINISTRATION	-	-	-	-	982	-	-	-	-	982
OTHER AGENCIES										
NATIONAL AERONAUTICS & SPACE ADMIN	409	125	284	-	15	-	-	15	-	-
NATIONAL SCIENCE FOUNDATION	1,477	317	1,160	-	9,361	-	1,401	280	285	7,395

NOTE: THE APPLIED RESEARCH OBLIGATIONS OF THE SIX AGENCIES INCLUDED IN THIS TABLE REPRESENT APPROXIMATELY 85 PERCENT OF TOTAL FEDERAL APPLIED RESEARCH OBLIGATIONS TO UNIVERSITIES AND COLLEGES IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-92. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF ENERGY	DEPARTMENT OF HEALTH AND HUMAN SERVICES	INTERNAT'L DEVELOPMENT COOPERATION AGENCY	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL SCIENCE FOUNDATION	OTHER
TOTAL	154,662	1,486	62,644	3,471	31,515	42,513	2,300	818	9,915
EUROPE, TOTAL	63,955	847	47,894	3,422	8,255	660	-	125	2,752
AUSTRIA	190	-	48	33	109	-	-	-	-
BELGIUM	452	-	285	-	167	-	-	-	-
DENMARK	190	-	-	-	92	-	-	-	98
FINLAND	425	-	-	40	358	-	-	-	27
FRANCE	3,048	353	929	7	284	-	-	-	1,475
ICELAND	85	-	-	85	-	-	-	-	-
IRELAND	125	-	75	-	50	-	-	-	-
ITALY	1,271	231	75	-	965	-	-	-	-
NETHERLANDS	1,744	263	250	-	571	660	-	-	-
NORWAY	1,554	-	1,051	-	103	-	-	-	400
PORTUGAL	190	-	-	190	-	-	-	-	-
SPAIN	113	-	91	-	-	-	-	-	22
SWEDEN	1,871	-	39	-	1,832	-	-	-	-
SWITZERLAND	789	-	18	-	771	-	-	-	-
UNITED KINGDOM, TOTAL	39,718	-	33,803	3,047	2,344	-	-	125	399
ENGLAND	9,308	-	3,647	3,047	2,154	-	-	61	399
SCOTLAND	283	-	93	-	190	-	-	-	-
BERMUDA	74	-	10	-	-	-	-	64	-
OTHER UNITED KINGDOM	30,053	-	30,053	-	-	-	-	-	-
WEST GERMANY	12,002	-	11,230	20	573	-	-	-	179
YUGOSLAVIA	188	-	-	-	36	-	-	-	152
ASIA, TOTAL	15,621	167	1,233	9	1,575	11,056	809	251	521
INDIA	1,531	-	-	-	564	-	809	82	76
JAPAN	1,268	98	65	9	675	-	-	-	421
SOUTH KOREA	84	-	73	-	11	-	-	-	-
MALAYSIA	449	-	449	-	-	-	-	-	-
PAKISTAN	415	-	-	-	238	-	-	169	8
PHILIPPINES	5,076	-	20	-	-	5,056	-	-	-
TAIWAN	1,226	-	626	-	-	600	-	-	-
THAILAND	156	69	-	-	87	-	-	-	-
OTHER ASIA	5,416	-	-	-	-	5,400	-	-	16
NEAR EAST, TOTAL	15,060	-	3,277	20	6,205	2,900	1,486	380	792
ISRAEL	4,919	-	1,010	20	3,822	-	-	-	67
LEBANON	2,900	-	-	-	-	2,900	-	-	-
UNITED ARAB REPUBLIC	7,093	-	2,226	-	2,383	-	1,486	380	618
OTHER NEAR EAST	148	-	41	-	-	-	-	-	107
AFRICA, TOTAL	11,079	114	172	-	124	10,660	5	4	-
KENYA	2,674	114	160	-	-	2,400	-	-	-
LIBERIA	500	-	-	-	-	500	-	-	-
NIGERIA	6,160	-	-	-	-	6,160	-	-	-
UGANDA	10	-	-	-	10	-	-	-	-
UNION OF SOUTH AFRICA	56	-	-	-	56	-	-	-	-
OTHER AFRICA	1,679	-	12	-	58	1,600	5	4	-
LATIN AMERICA, TOTAL	13,093	132	726	-	196	12,001	-	-	38
ARGENTINA	298	85	69	-	144	-	-	-	-
BRAZIL	166	-	153	-	-	-	-	-	13
COLOMBIA	3,400	-	-	-	-	3,400	-	-	-
COSTA RICA	1,215	-	-	-	-	1,215	-	-	-
EL SALVADOR	47	47	-	-	-	-	-	-	-
MEXICO	4,647	-	-	-	52	4,570	-	-	25
PANAMA	459	-	459	-	-	-	-	-	-
PERU	1,998	-	35	-	-	1,963	-	-	-
VENEZUELA	10	-	10	-	-	-	-	-	-
OTHER LATIN AMERICA	853	-	-	-	-	853	-	-	-
AUSTRALIA	1,136	-	-	-	1,136	-	-	-	-
CANADA	21,745	226	8,324	20	7,358	-	-	5	5,812
NEW ZEALAND	91	-	-	-	91	-	-	-	-
INTERNATIONAL ORGANIZATIONS	12,882	-	1,018	-	6,575	5,236	-	53	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-93. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS, BY REGION, COUNTRY, AND AGENCY: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

REGION AND COUNTRY	TOTAL	DEPARTMENT OF AGRICULTURE	DEPARTMENT OF DEFENSE	DEPARTMENT OF HEALTH AND HUMAN SERVICES	NATIONAL SCIENCE FOUNDATION	NATIONAL AERONAUTICS AND SPACE ADMIN	OTHER
TOTAL	19,516	721	7,023	9,347	574	1,628	223
EUROPE, TOTAL	6,252	363	2,901	2,784	125	77	2
AUSTRIA	66	-	5	61	-	-	-
BELGIUM	186	-	47	139	-	-	-
DENMARK	82	-	-	76	-	6	-
FINLAND	147	-	-	147	-	-	-
FRANCE	537	152	200	174	-	11	-
IRELAND	75	-	75	-	-	-	-
ITALY	245	99	63	83	-	-	-
NETHERLANDS	538	112	131	295	-	-	-
NORWAY	1	-	1	-	-	-	-
SPAIN	50	-	50	-	-	-	-
SWEDEN	976	-	32	944	-	-	-
SWITZERLAND	178	-	18	160	-	-	-
UNITED KINGDOM, TOTAL	2,805	-	2,017	622	125	41	-
ENGLAND	2,659	-	1,935	622	61	41	-
SCOTLAND	42	-	42	-	-	-	-
BERMUDA	71	-	7	-	64	-	-
OTHER UNITED KINGDOM	33	-	33	-	-	-	-
WEST GERMANY	364	-	262	83	-	19	-
YUGOSLAVIA	2	-	-	-	-	-	2
ASIA, TOTAL	926	72	578	19	181	32	44
INDIA	70	-	-	-	30	-	40
JAPAN	158	42	65	19	-	32	-
PAKISTAN	155	-	-	-	151	-	4
TAIWAN	513	-	513	-	-	-	-
THAILAND	30	30	-	-	-	-	-
NEAR EAST, TOTAL	4,923	-	2,768	1,763	210	5	177
ISRAEL	2,380	-	542	1,763	-	5	70
UNITED ARAB REPUBLIC	2,436	-	2,226	-	210	-	-
OTHER NEAR EAST	107	-	-	-	-	-	107
AFRICA, TOTAL	90	49	12	29	-	-	-
KENYA	49	49	-	-	-	-	-
OTHER AFRICA	41	-	12	29	-	-	-
LATIN AMERICA, TOTAL	230	56	40	134	-	-	-
ARGENTINA	148	36	30	82	-	-	-
EL SALVADOR	20	20	-	-	-	-	-
MEXICO	52	-	-	52	-	-	-
VENEZUELA	10	-	10	-	-	-	-
AUSTRALIA	532	-	-	532	-	-	-
CANADA	4,902	181	724	2,478	5	1,514	-
NEW ZEALAND	48	-	-	48	-	-	-
INTERNATIONAL ORGANIZATIONS	1,613	-	-	1,560	53	-	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-94. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1979		ESTIMATES			
			1980		1981	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	154,662	9,967	185,687	22,378	182,830	27,457
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	1,486	-	1,456	-	7,402	5,582
FOREST SERVICE	226	-	241	-	269	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	-	-	-	-	5,882	5,582
SCIENCE & EDUCATION ADMINISTRATION	1,260	-	1,215	-	1,251	-
AGRICULTURAL RESEARCH	1,260	-	1,215	-	1,251	-
DEPARTMENT OF COMMERCE, TOTAL	373	-	641	-	163	-
MARITIME ADMINISTRATION	98	-	-	-	-	-
NATIONAL BUREAU OF STANDARDS	78	-	80	-	80	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	117	-	116	-	83	-
OFFICE OF THE SECRETARY	80	-	445	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	62,644	2,200	78,143	5,951	71,260	7,690
DEPARTMENT OF THE ARMY	15,125	-	6,767	-	6,935	-
DEPARTMENT OF THE NAVY	40,091	2,200	63,560	5,951	54,779	7,690
DEPARTMENT OF THE AIR FORCE	7,017	-	7,307	-	8,997	-
DEFENSE AGENCIES	411	-	509	-	549	-
DEPARTMENT OF EDUCATION	1,153	-	3,404	3,114	2,250	2,359
DEPARTMENT OF ENERGY	3,471	-	3,894	-	4,485	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	31,515	4,679	32,490	7,560	31,369	6,726
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	1,323	-	1,645	350	1,794	300
CENTER FOR DISEASE CONTROL	2,222	2,160	2,648	2,500	2,154	2,000
HEALTH SERVICES ADMINISTRATION	761	761	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	25,522	264	26,277	2,910	25,892	3,000
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	1,634	1,494	1,920	1,800	1,529	1,426
OFFICE OF HUMAN DEVELOPMENT SERVICES	3	-	-	-	-	-
SOCIAL SECURITY ADMINISTRATION	50	-	-	-	-	-
DEPARTMENT OF THE INTERIOR, TOTAL	289	153	2,653	2,653	1,000	1,000
BUREAU OF MINES	136	-	-	-	-	-
OFFICE OF THE SECRETARY	153	153	2,653	2,653	1,000	1,000
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	2,300	2,300	1,800	1,800	3,000	3,000
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	42,513	-	51,753	-	52,478	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	42,513	-	12,303	-	12,638	-
INST FOR SCIENTIFIC AND TECHNOLOGICAL COOPERATION	-	-	39,450	-	39,840	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	7,469	-	7,250	-	7,250	-
NATIONAL SCIENCE FOUNDATION	818	635	1,471	1,300	1,288	1,100
NUCLEAR REGULATORY COMMISSION	631	-	632	-	785	-
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	-	-	100	-	100	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-95. FEDERAL OBLIGATIONS FOR BASIC RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1979		ESTIMATES			
			1980		1981	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	19,516	3,759	28,698	11,128	31,690	13,667
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	721	-	727	-	3,656	2,853
FOREST SERVICE	181	-	195	-	218	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	-	-	-	-	2,858	2,853
SCIENCE & EDUCATION ADMINISTRATION	540	-	532	-	580	-
AGRICULTURAL RESEARCH	540	-	532	-	580	-
DEPARTMENT OF COMMERCE, TOTAL	-	-	43	-	-	-
OFFICE OF THE SECRETARY	-	-	43	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	7,023	2,200	11,727	5,951	13,554	7,693
DEPARTMENT OF THE ARMY	1,109	-	1,390	-	1,693	-
DEPARTMENT OF THE NAVY	3,909	2,200	8,043	5,951	9,661	7,693
DEPARTMENT OF THE AIR FORCE	2,005	-	2,000	-	2,200	-
DEFENSE AGENCIES	-	-	294	-	-	-
DEPARTMENT OF EDUCATION	50	-	-	-	-	-
DEPARTMENT OF ENERGY	20	-	21	-	16	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	9,347	1,015	10,769	1,574	10,787	1,269
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	600	-	710	350	712	303
NATIONAL INSTITUTES OF HEALTH	7,679	-	8,789	-	9,067	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	1,068	1,015	1,270	1,224	1,008	969
DEPARTMENT OF THE INTERIOR, TOTAL	153	153	2,653	2,653	1,000	1,000
OFFICE OF THE SECRETARY	153	153	2,653	2,653	1,000	1,000
OTHER AGENCIES						
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	1,628	-	1,637	-	1,639	-
NATIONAL SCIENCE FOUNDATION	574	391	1,121	950	1,038	853

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-96. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1979		ESTIMATES			
			1980		1981	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	57,889	6,208	63,222	11,253	71,292	13,369
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	674	-	644	-	3,240	2,602
FOREST SERVICE	45	-	46	-	51	-
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	-	-	-	-	2,602	2,602
SCIENCE & EDUCATION ADMINISTRATION	629	-	598	-	587	-
AGRICULTURAL RESEARCH	629	-	598	-	587	-
DEPARTMENT OF COMMERCE, TOTAL	295	-	518	-	83	-
MARITIME ADMINISTRATION	98	-	-	-	-	-
NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION	117	-	116	-	83	-
OFFICE OF THE SECRETARY	80	-	402	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	5,106	-	5,006	-	5,710	-
DEPARTMENT OF THE ARMY	1,801	-	1,705	-	1,726	-
DEPARTMENT OF THE NAVY	315	-	325	-	350	-
DEPARTMENT OF THE AIR FORCE	2,579	-	2,761	-	3,085	-
DEFENSE AGENCIES	411	-	215	-	549	-
DEPARTMENT OF EDUCATION	968	-	3,254	3,114	2,250	2,059
DEPARTMENT OF ENERGY	1,415	-	1,506	-	1,915	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	16,161	3,664	15,681	5,986	17,098	5,457
ALCOHOL, DRUG ABUSE & MENTAL HEALTH ADMINISTRATION	723	-	935	-	1,082	-
CENTER FOR DISEASE CONTROL	2,222	2,160	2,648	2,500	2,154	2,000
HEALTH SERVICES ADMINISTRATION	761	761	-	-	-	-
NATIONAL INSTITUTES OF HEALTH	11,856	264	11,464	2,910	13,356	3,000
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	546	479	634	576	506	457
OFFICE OF HUMAN DEVELOPMENT SERVICES	3	-	-	-	-	-
SOCIAL SECURITY ADMINISTRATION	50	-	-	-	-	-
OTHER AGENCIES						
ENVIRONMENTAL PROTECTION AGENCY	2,300	2,300	1,800	1,800	3,000	3,000
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	29,360	-	33,122	-	36,243	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	29,360	-	4,872	-	6,203	-
INST FOR SCIENTIFIC AND TECHNOLOGICAL COOPERATION	-	-	28,250	-	30,040	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	735	-	609	-	608	-
NATIONAL SCIENCE FOUNDATION	244	244	350	350	250	250
NUCLEAR REGULATORY COMMISSION	631	-	632	-	785	-
UNITED STATES ARMS CONTROL AND DISARMAMENT AGENCY	-	-	100	-	100	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-97. FEDERAL OBLIGATIONS FOR DEVELOPMENT TO FOREIGN PERFORMERS AND AMOUNT SUPPORTED THROUGH THE SPECIAL FOREIGN CURRENCY PROGRAM, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1979		ESTIMATES			
			1980		1981	
	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM	TOTAL	SPECIAL FOREIGN CURRENCY PROGRAM
TOTAL, ALL AGENCIES	77,257	-	93,767	-	79,858	422
DEPARTMENTS						
DEPARTMENT OF AGRICULTURE, TOTAL	91	-	85	-	506	422
OFFICE OF INTERNATIONAL COOPERATION AND DEVELOPMENT	-	-	-	-	422	422
SCIENCE & EDUCATION ADMINISTRATION	91	-	85	-	84	-
AGRICULTURAL RESEARCH	91	-	85	-	84	-
DEPARTMENT OF COMMERCE, TOTAL	78	-	80	-	80	-
NATIONAL BUREAU OF STANDARDS	78	-	80	-	80	-
DEPARTMENT OF DEFENSE, TOTAL	50,515	-	61,410	-	51,996	-
DEPARTMENT OF THE ARMY	12,215	-	3,672	-	3,516	-
DEPARTMENT OF THE NAVY	35,867	-	55,192	-	44,768	-
DEPARTMENT OF THE AIR FORCE	2,433	-	2,546	-	3,712	-
DEPARTMENT OF EDUCATION	135	-	150	-	-	-
DEPARTMENT OF ENERGY	2,036	-	2,367	-	2,554	-
DEPARTMENT OF HEALTH AND HUMAN SERVICES, TOTAL	6,007	-	6,040	-	3,484	-
NATIONAL INSTITUTES OF HEALTH	5,987	-	6,024	-	3,469	-
OFFICE OF ASSISTANT SECRETARY FOR HEALTH	20	-	16	-	15	-
DEPARTMENT OF THE INTERIOR, TOTAL	136	-	-	-	-	-
BUREAU OF MINES	136	-	-	-	-	-
OTHER AGENCIES						
INTERNATIONAL DEVELOPMENT COOPERATION AGENCY	13,153	-	18,631	-	16,235	-
AGENCY FOR INTERNATIONAL DEVELOPMENT	13,153	-	7,431	-	6,435	-
INST FOR SCIENTIFIC AND TECHNOLOGICAL COOPERATION	-	-	11,200	-	9,800	-
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	5,106	-	5,004	-	5,003	-

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-98. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	RESEARCH, DEVELOPMENT AND R&D PLANT	RESEARCH AND DEVELOPMENT	R&D PLANT
TOTAL	29,310,626	27,916,790	1,393,836
NEW ENGLAND	2,743,331	2,685,116	58,215
CONNECTICUT	340,713	328,399	12,314
MAINE	23,202	23,096	106
MASSACHUSETTS	2,099,271	2,062,337	36,934
NEW HAMPSHIRE	99,475	94,089	5,386
RHODE ISLAND	144,152	140,680	3,472
VERMONT	36,518	36,515	3
MIDDLE ATLANTIC	3,293,083	3,112,347	180,736
NEW JERSEY	714,121	649,310	64,811
NEW YORK	1,432,525	1,363,103	69,422
PENNSYLVANIA	1,146,437	1,099,934	46,503
EAST NORTH CENTRAL	2,194,163	2,097,756	96,407
ILLINOIS	609,100	547,226	61,874
INDIANA	122,680	121,999	681
MICHIGAN	267,349	264,357	2,992
OHIO	1,081,174	1,053,175	27,999
WISCONSIN	113,860	110,999	2,861
WEST NORTH CENTRAL	1,290,205	1,277,818	12,387
IOWA	87,072	84,872	2,200
KANSAS	136,348	136,330	18
MINNESOTA	203,570	202,761	809
MISSOURI	784,583	778,948	5,635
NEBRASKA	32,073	31,294	779
NORTH DAKOTA	34,784	33,431	1,353
SOUTH DAKOTA	11,775	10,182	1,593
SOUTH ATLANTIC	5,928,880	5,726,924	201,956
DELAWARE	14,382	14,382	-
DISTRICT OF COLUMBIA	790,363	768,394	21,969
FLORIDA	1,063,291	1,017,303	45,988
GEORGIA	185,433	184,407	1,026
MARYLAND	2,424,155	2,359,810	64,345
NORTH CAROLINA	224,797	220,940	3,857
SOUTH CAROLINA	123,927	114,252	9,675
VIRGINIA	982,285	940,261	42,024
WEST VIRGINIA	120,247	107,175	13,072
EAST SOUTH CENTRAL	1,412,426	1,347,328	65,098
ALABAMA	562,180	559,596	2,584
KENTUCKY	45,961	43,029	2,932
MISSISSIPPI	104,441	100,650	3,791
TENNESSEE	699,844	644,053	55,791
WEST SOUTH CENTRAL	1,481,483	1,454,179	27,304
ARKANSAS	37,492	37,266	226
LOUISIANA	225,799	209,084	16,715
OKLAHOMA	70,730	70,113	617
TEXAS	1,147,462	1,137,716	9,746
MOUNTAIN	2,517,572	2,262,677	254,895
ARIZONA	236,727	201,434	35,293
COLORADO	451,928	442,218	9,710
IDAHO	188,924	147,077	41,847
MONTANA	42,837	41,648	1,189
NEVADA	246,264	222,098	24,166
NEW MEXICO	1,094,096	955,542	138,554
UTAH	214,525	211,637	2,888
WYOMING	42,271	41,023	1,248
PACIFIC	8,344,811	7,855,605	489,206
ALASKA	46,747	45,920	827
CALIFORNIA	7,204,190	6,803,995	400,195
HAWAII	41,336	40,819	517
OREGON	100,975	100,104	871
WASHINGTON	951,563	864,767	86,796
OUTLYING AREAS	39,902	39,388	514
OFFICES ABROAD	64,770	57,652	7,118

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 96 PERCENT OF TOTAL FEDERAL R&D AND R&D PLANT OBLIGATIONS IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	27,916,790	7,195,898	12,812,210	1,230,037	3,740,394	1,485,922	863,232	355,353	233,744
CALIFORNIA	6,803,995	946,373	4,400,423	72,786	518,088	581,804	122,379	136,795	25,347
MARYLAND	2,359,810	1,510,541	581,209	29,148	211,880	300	17,146	2,998	6,588
MASSACHUSETTS	2,062,337	242,199	1,121,206	-	351,306	93,001	180,054	65,031	6,490
NEW YORK	1,363,103	112,708	475,455	148,110	378,044	117,505	93,398	15	37,868
TEXAS	1,137,716	246,560	681,169	-	182,630	-	18,781	-	8,576
PENNSYLVANIA	1,099,934	214,615	414,914	217,715	193,925	-	56,075	-	2,690
OHIO	1,053,175	477,706	400,375	11,211	120,003	-	40,124	-	3,756
FLORIDA	1,017,303	366,037	566,744	-	69,058	-	9,695	-	5,769
NEW MEXICO	955,542	211,800	121,258	288,705	32,399	285,917	12,452	12	2,999
VIRGINIA	940,261	464,892	379,334	-	56,246	25	22,665	11,341	5,759
WASHINGTON	864,767	47,719	520,120	115,696	94,869	-	19,082	62,061	5,220
MISSOURI	778,948	42,713	647,209	-	73,011	-	10,556	-	5,459
DISTRICT OF COLUMBIA	768,394	527,230	123,504	-	70,415	-	45,602	-	1,643
NEW JERSEY	649,310	231,783	309,477	-	43,613	49,529	7,093	-	7,815
TENNESSEE	644,053	50,284	326,790	201,404	53,188	4,872	5,968	-	1,547
ALABAMA	559,596	369,618	137,901	-	40,746	-	10,663	-	668
ILLINOIS	547,226	47,552	49,568	-	154,005	252,348	38,753	-	5,000
COLORADO	442,218	81,438	173,586	107	65,067	27,435	11,470	73,965	9,150
CONNECTICUT	328,399	17,745	214,698	3,815	83,887	-	4,826	-	3,428
MICHIGAN	264,357	54,436	92,468	-	100,043	-	12,382	-	5,028
NEVADA	222,098	33,988	173,779	2,720	5,474	-	4,787	-	1,350
NORTH CAROLINA	220,940	86,055	13,742	-	105,617	775	13,508	-	1,243
UTAH	211,637	34,439	123,200	-	45,931	-	3,443	-	4,624
LOUISIANA	209,084	30,260	146,157	-	26,745	-	2,781	-	3,141
MINNESOTA	202,761	20,926	87,087	-	64,282	-	24,551	-	5,915
ARIZONA	201,434	61,608	78,153	-	43,502	14,051	1,858	-	2,262
GEORGIA	184,407	65,375	52,518	-	54,593	-	4,897	-	7,024
IDAHO	147,077	9,038	8,701	93,027	4,520	23,070	898	-	7,823
RHODE ISLAND	140,680	93,726	16,970	-	23,652	-	5,688	-	644
KANSAS	136,330	4,185	106,521	-	23,218	-	1,455	-	951
INDIANA	121,999	31,076	32,093	-	55,663	-	2,464	-	703
SOUTH CAROLINA	114,252	14,100	28,782	45,568	18,675	-	5,447	-	1,680
WISCONSIN	110,999	15,446	5,388	-	85,325	-	3,009	-	1,831
WEST VIRGINIA	107,175	70,004	5,453	-	8,442	17,929	2,543	75	2,729
MISSISSIPPI	100,650	56,304	21,573	-	20,761	-	966	10	1,036
OREGON	100,104	33,179	7,276	-	40,892	-	10,575	-	8,182
NEW HAMPSHIRE	94,089	13,578	64,691	-	14,460	-	567	-	793
IOWA	84,872	11,940	12,529	-	43,842	12,836	1,407	-	2,318
OKLAHOMA	70,113	35,953	12,595	-	15,845	-	3,865	-	1,855
ALASKA	45,920	23,089	1,692	-	14,176	-	500	-	6,463
KENTUCKY	43,029	16,123	4,943	-	18,991	-	2,166	-	806
MONTANA	41,648	16,922	11,736	-	6,330	-	1,543	-	5,117
WYOMING	41,023	29,434	421	-	9,731	-	426	-	1,011
HAWAII	40,819	7,582	5,799	25	24,630	-	2,300	-	483
ARKANSAS	37,266	23,168	2,526	-	9,458	-	680	-	1,434
VERMONT	36,515	12,163	9,548	-	11,816	-	957	-	2,031
NORTH DAKOTA	33,431	18,430	7,296	-	6,018	-	219	-	1,468
NEBRASKA	31,294	7,748	5,137	-	16,500	-	568	-	1,341
MAINE	23,096	2,797	4,786	-	4,839	-	7,107	-	3,567
DELAWARE	14,382	1,273	1,807	-	9,262	-	1,623	-	417
SOUTH DAKOTA	10,182	2,975	241	-	4,695	-	352	-	1,919
OUTLYING AREAS	39,388	7,430	15,465	-	10,053	4,525	1,131	-	784
OFFICES ABROAD	57,652	41,635	6,197	-	33	-	9,787	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 96 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99A. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH PERFORMER, BY STATE: FISCAL YEAR 1979

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	24.4	13.2	34.3	5.9	13.9	39.2	14.2	38.5	10.8
MARYLAND	8.5	21.0	4.5	2.4	5.7	*	2.0	.8	2.8
MASSACHUSETTS	7.4	3.4	8.8	-	9.4	6.3	20.9	19.2	2.8
NEW YORK	4.9	1.6	3.7	12.0	10.1	7.9	10.8	*	16.2
TEXAS	4.1	3.4	5.3	-	4.9	-	2.2	-	3.7
PENNSYLVANIA	3.9	3.0	3.2	17.7	5.2	-	6.5	-	1.2
OHIO	3.8	6.6	3.1	.9	3.2	-	4.6	-	1.6
FLORIDA	3.6	5.1	4.4	-	1.8	-	1.1	-	2.5
NEW MEXICO	3.4	2.9	.9	23.5	.9	19.2	1.4	*	1.3
VIRGINIA	3.4	6.5	3.0	-	1.5	*	2.6	3.2	2.5
WASHINGTON	3.1	.7	4.1	9.4	2.5	-	2.2	17.5	2.2
MISSOURI	2.8	.6	5.1	-	2.0	-	1.2	-	2.3
DISTRICT OF COLUMBIA	2.8	7.3	1.0	-	1.9	-	5.3	-	.7
NEW JERSEY	2.3	3.2	2.4	-	1.2	3.3	.8	-	3.3
TENNESSEE	2.3	.7	2.6	16.4	1.4	.3	.7	-	.7
ALABAMA	2.0	5.1	1.1	-	1.1	-	1.2	-	.3
ILLINOIS	2.0	.7	.4	-	4.1	17.0	4.5	-	2.1
COLORADO	1.6	1.1	1.4	*	1.7	1.8	1.3	20.8	3.9
CONNECTICUT	1.2	.2	1.7	.3	2.2	-	.6	-	1.5
MICHIGAN	.9	.8	.7	-	2.7	-	1.4	-	2.2
NEVADA	.8	.5	1.4	.2	.1	-	.6	-	.6
NORTH CAROLINA	.8	1.2	.1	-	2.8	.1	1.6	-	.5
UTAH	.8	.5	1.0	-	1.2	-	.4	-	2.0
LOUISIANA	.7	.4	1.1	-	.7	-	.3	-	1.3
MINNESOTA	.7	.3	.7	-	1.7	-	2.8	-	2.5
ARIZONA	.7	.9	.6	-	1.2	.9	.2	-	1.0
GEORGIA	.7	.9	.4	-	1.5	*	.6	-	3.0
IDAHO	.5	.1	.1	7.6	.1	1.6	.1	-	3.3
RHODE ISLAND	.5	1.3	.1	-	.6	-	.7	-	.3
KANSAS	.5	.1	.8	-	.6	-	.2	-	.4
INDIANA	.4	.4	.3	-	1.5	-	.3	-	.3
SOUTH CAROLINA	.4	.2	.2	3.7	.5	-	.6	-	.7
WISCONSIN	.4	.2	*	-	2.3	-	.3	-	.8
WEST VIRGINIA	.4	1.0	*	-	.2	1.2	.3	*	1.2
MISSISSIPPI	.4	.8	.2	-	.6	-	.1	*	.4
OREGON	.4	.5	.1	-	1.1	-	1.2	-	3.5
NEW HAMPSHIRE	.3	.2	.5	-	.4	-	.1	-	.3
IOWA	.3	.2	.1	-	1.2	.9	.2	-	1.0
OKLAHOMA	.3	.5	.1	-	.4	-	.4	-	.8
ALASKA	.2	.3	*	-	.4	-	.1	-	2.8
KENTUCKY	.2	.2	*	-	.5	-	.3	-	.3
MONTANA	.1	.2	.1	-	.2	-	.2	-	2.2
WYOMING	.1	.4	*	-	.3	-	*	-	.4
HAWAII	.1	.1	*	*	.7	-	.3	-	.2
ARKANSAS	.1	.3	*	-	.3	-	.1	-	.6
VERMONT	.1	.2	.1	-	.3	-	.1	-	.9
NORTH DAKOTA	.1	.3	.1	-	.2	-	*	-	.6
NEBRASKA	.1	.1	*	-	.4	-	.1	-	.6
MAINE	.1	*	*	-	.1	-	.8	-	1.5
DELAWARE	.1	*	*	-	.2	-	.2	-	.2
SOUTH DAKOTA	*	*	*	-	.1	-	*	-	.8
OUTLYING AREAS	.1	.1	.1	-	.3	.3	.1	-	.3
OFFICES ABROAD	.2	.6	*	-	*	-	1.1	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-99B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO EACH STATE, BY PERFORMER: FISCAL YEAR 1979

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	100.0%	25.8%	45.9%	4.4%	13.4%	5.3%	3.1%	1.3%	0.8%
CALIFORNIA	100.0	13.9	64.7	1.1	7.6	8.6	1.8	2.0	.6
MARYLAND	100.0	64.0	24.6	1.2	9.0	*	.7	.1	.3
MASSACHUSETTS	100.0	11.7	54.4	-	17.0	4.5	8.7	3.3	.3
NEW YORK	100.0	8.3	34.9	10.9	27.7	8.6	6.9	*	2.8
TEXAS	100.0	21.7	59.9	-	16.1	-	1.7	-	.8
PENNSYLVANIA	100.0	19.5	37.7	19.8	17.6	-	5.1	-	.2
OHIO	100.0	45.4	38.0	1.1	11.4	-	3.8	-	.4
FLORIDA	100.0	36.0	55.7	-	6.8	-	1.0	-	.6
NEW MEXICO	100.0	22.2	12.7	30.2	3.4	29.9	1.3	*	.3
VIRGINIA	100.0	49.4	40.3	-	6.0	*	2.4	1.2	.6
WASHINGTON	100.0	5.5	60.1	13.4	11.0	-	2.2	7.2	.6
MISSOURI	100.0	5.5	83.1	-	9.4	-	1.4	-	.7
DISTRICT OF COLUMBIA	100.0	68.6	16.1	-	9.2	-	5.9	-	.2
NEW JERSEY	100.0	35.7	47.7	-	6.7	7.6	1.1	-	1.2
TENNESSEE	100.0	7.8	50.7	31.3	8.3	.8	.9	-	.2
ALABAMA	100.0	66.1	24.6	-	7.3	-	1.9	-	.1
ILLINOIS	100.0	8.7	9.1	-	28.1	46.1	7.1	-	.9
COLORADO	100.0	18.4	39.3	*	14.7	6.2	2.6	16.7	2.1
CONNECTICUT	100.0	5.4	65.4	1.2	25.5	-	1.5	-	1.0
MICHIGAN	100.0	20.6	35.0	-	37.8	-	4.7	-	1.9
NEVADA	100.0	15.3	78.2	1.2	2.5	-	2.2	-	.6
NORTH CAROLINA	100.0	38.9	6.2	-	47.8	.4	6.1	-	.6
UTAH	100.0	16.3	58.2	-	21.7	-	1.6	-	2.2
LOUISIANA	100.0	14.5	69.9	-	12.8	-	1.3	-	1.5
MINNESOTA	100.0	10.3	43.0	-	31.7	-	12.1	-	2.9
ARIZONA	100.0	30.6	38.8	-	21.6	7.0	.9	-	1.1
GEORGIA	100.0	35.5	28.5	-	29.6	-	2.7	-	3.8
IDAHO	100.0	6.1	5.9	63.3	3.1	15.7	.6	-	5.3
RHODE ISLAND	100.0	66.6	12.1	-	16.8	-	4.0	-	.5
KANSAS	100.0	3.1	78.1	-	17.0	-	1.1	-	.7
INDIANA	100.0	25.5	26.3	-	45.6	-	2.0	-	.6
SOUTH CAROLINA	100.0	12.3	25.2	39.9	16.3	-	4.8	-	1.5
WISCONSIN	100.0	13.9	4.9	-	76.9	-	2.7	-	1.6
WEST VIRGINIA	100.0	65.3	5.1	-	7.9	16.7	2.4	.1	2.5
MISSISSIPPI	100.0	55.9	21.4	-	20.6	-	1.0	*	1.0
OREGON	100.0	33.1	7.3	-	40.8	-	10.6	-	8.2
NEW HAMPSHIRE	100.0	14.4	68.8	-	15.4	-	.6	-	.8
IOWA	100.0	14.1	14.8	-	51.7	15.1	1.7	-	2.7
OKLAHOMA	100.0	51.3	18.0	-	22.6	-	5.5	-	2.6
ALASKA	100.0	50.3	3.7	-	30.9	-	1.1	-	14.1
KENTUCKY	100.0	37.5	11.5	-	44.1	-	5.0	-	1.9
MONTANA	100.0	40.6	28.2	-	15.2	-	3.7	-	12.3
WYOMING	100.0	71.7	1.0	-	23.7	-	1.0	-	2.5
HAWAII	100.0	18.6	14.2	.1	60.3	-	5.6	-	1.2
ARKANSAS	100.0	62.2	6.8	-	25.4	-	1.8	-	3.8
VERMONT	100.0	33.3	26.1	-	32.4	-	2.6	-	5.6
NORTH DAKOTA	100.0	55.1	21.8	-	18.0	-	.7	-	4.4
NEBRASKA	100.0	24.8	16.4	-	52.7	-	1.8	-	4.3
MAINE	100.0	12.1	20.7	-	21.0	-	30.8	-	15.4
DELAWARE	100.0	8.9	12.6	-	64.4	-	11.3	-	2.9
SOUTH DAKOTA	100.0	29.2	2.4	-	46.1	-	3.5	-	18.8
OUTLYING AREAS	100.0	18.9	39.3	-	25.5	11.5	2.9	-	2.0
OFFICES ABROAD	100.0	72.2	10.7	-	.1	-	17.0	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-100. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY STATE AND AGENCY: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	27,916,790	661,539	308,986	12,443,581	4,635,295	3,473,365	405,489	370,089	407,800	4,403,539	807,107
CALIFORNIA	6,803,995	42,884	13,053	3,738,060	746,118	399,644	44,146	26,925	41,669	1,622,950	128,547
MARYLAND	2,359,810	68,944	81,146	872,856	56,260	759,339	15,098	51,831	28,387	410,685	15,264
MASSACHUSETTS	2,062,337	3,804	17,147	1,310,308	268,756	260,707	10,328	57,770	14,415	53,969	65,133
NEW YORK	1,363,103	19,837	15,155	540,988	257,526	364,849	7,968	12,356	11,932	54,921	77,571
TEXAS	1,137,716	27,290	5,992	394,490	42,065	122,070	9,384	28,368	14,650	471,899	21,508
PENNSYLVANIA	1,099,934	22,127	6,637	375,799	349,746	160,312	40,391	11,987	14,246	88,241	30,448
OHIO	1,053,175	9,857	1,297	537,696	183,194	92,812	4,199	6,611	41,625	161,723	14,161
FLORIDA	1,017,303	15,127	18,368	475,654	19,765	39,990	3,941	2,601	11,389	416,019	14,449
NEW MEXICO	955,542	2,572	321	312,393	587,680	15,492	5,309	1,720	442	25,497	4,116
VIRGINIA	940,261	5,601	6,514	519,071	35,279	53,168	32,735	31,160	17,186	224,912	14,635
WASHINGTON	864,767	11,624	22,160	460,359	228,144	77,429	12,297	7,361	4,135	26,616	14,642
MISSOURI	778,948	8,880	1,714	670,564	3,246	63,056	10,434	2,414	5,471	6,198	6,971
DISTRICT OF COLUMBIA	768,394	65,468	9,362	265,894	129,399	89,898	11,956	37,135	25,703	61,147	72,432
NEW JERSEY	649,310	2,776	18,618	441,876	73,991	30,631	4,401	11,651	12,930	40,524	12,812
TENNESSEE	644,053	6,330	357	128,030	443,346	40,114	1,779	1,163	8,763	9,237	4,934
ALABAMA	559,596	7,707	509	241,180	44,089	35,331	4,639	2,876	2,783	219,017	1,465
ILLINOIS	547,226	25,910	5,338	41,622	301,090	102,920	4,897	4,400	7,612	12,052	41,385
COLORADO	442,218	12,900	29,650	86,789	111,587	42,281	37,846	16,016	6,516	56,306	42,327
CONNECTICUT	328,399	3,259	2,665	119,179	13,165	69,772	1,260	7,861	2,253	98,773	10,212
MICHIGAN	264,357	10,340	5,009	92,213	41,241	67,057	8,094	5,081	3,412	9,875	22,035
NEVADA	222,098	1,611	71	14,614	186,213	901	9,662	27	6,127	1,204	1,668
NORTH CAROLINA	220,940	15,258	5,361	20,579	4,933	106,031	3,328	1,051	51,299	2,948	10,152
UTAH	211,637	6,272	124	67,475	12,987	26,215	14,435	2,321	1,052	74,977	5,779
LOUISIANA	209,084	29,043	1,536	7,961	8,621	19,557	1,816	967	3,085	134,459	2,039
MINNESOTA	202,761	11,766	1,274	74,992	4,422	68,025	9,569	3,525	9,427	8,643	11,118
ARIZONA	201,434	10,239	741	97,790	12,328	17,965	6,175	3,675	1,014	18,951	32,556
GEORGIA	184,407	25,492	2,743	58,905	6,096	54,464	4,663	2,666	12,910	8,553	7,915
IDAHO	147,077	7,853	187	423	128,630	1,217	5,422	2,558	391	26	370
RHODE ISLAND	140,680	1,182	1,479	106,077	2,378	10,720	855	251	5,428	715	11,595
KANSAS	136,330	5,554	25	107,195	414	16,005	895	549	954	1,642	3,097
INDIANA	121,999	6,388	477	53,841	7,577	26,589	1,670	1,458	1,489	5,975	16,535
SOUTH CAROLINA	114,252	8,648	3,004	11,227	73,327	10,658	1,925	212	1,315	400	3,536
WISCONSIN	110,999	18,463	1,728	3,535	4,061	54,470	3,235	153	3,288	4,290	17,776
WEST VIRGINIA	107,175	6,017	101	3,778	58,732	10,767	5,222	2,325	1,644	102	18,487
MISSISSIPPI	100,650	19,114	5,401	40,118	7,611	5,908	3,576	1,389	352	16,683	498
OREGON	100,104	14,910	4,829	3,721	10,729	28,132	10,274	3,511	10,645	2,607	10,746
NEW HAMPSHIRE	94,089	2,660	921	24,242	52,729	8,085	1,336	47	871	1,410	1,788
IOWA	84,872	17,311	151	13,590	12,946	28,271	1,929	728	2,371	3,628	3,947
OKLAHOMA	70,113	8,142	3,510	5,297	25,631	9,207	1,955	8,298	3,862	1,888	2,323
ALASKA	45,920	4,781	6,178	14,619	431	360	14,467	1,034	664	1,283	2,103
KENTUCKY	43,029	6,627	203	10,874	1,977	15,317	2,055	429	2,875	690	2,082
MONTANA	41,648	11,279	77	256	11,054	6,343	9,131	708	1,184	3	1,613
WYOMING	41,023	2,414	25	381	29,835	472	4,603	421	759	333	1,780
HAWAII	40,819	3,471	3,323	10,219	4,812	8,469	2,182	158	271	2,725	5,189
ARKANSAS	37,266	5,037	373	2,416	3,710	17,867	2,008	487	4,294	76	998
VERMONT	36,515	1,983	222	20,921	72	10,546	631	80	1,653	134	273
NORTH DAKOTA	33,431	11,805	237	5,517	9,870	1,010	4,193	10	245	-	544
NEBRASKA	31,294	10,515	25	4,955	399	8,696	1,315	769	235	128	4,257
MAINE	23,096	2,882	1,205	3,346	1,023	6,736	1,718	1,731	1,685	367	2,403
DELAWARE	14,382	2,070	1,143	1,615	1,081	2,760	632	281	597	656	3,547
SOUTH DAKOTA	10,182	4,149	51	26	581	926	2,483	980	296	228	462
OUTLYING AREAS	39,388	5,366	1,249	18,162	2,612	3,801	1,027	3	-	2,284	4,884
OFFICES ABROAD	57,652	-	-	9,893	12,786	3	-	-	-	34,970	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 96 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10CA. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH AGENCY, BY STATE: FISCAL YEAR 1979

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
CALIFORNIA	24.4	6.5	4.2	30.0	16.1	11.5	10.9	7.3	10.2	36.9	15.9
MARYLAND	8.5	10.4	26.3	7.0	1.2	21.9	3.7	14.0	7.0	9.3	1.9
MASSACHUSETTS	7.4	.6	5.5	10.5	5.8	7.5	2.5	15.6	3.5	1.2	8.1
NEW YORK	4.9	3.0	4.9	4.3	5.6	10.5	2.0	3.3	2.9	1.2	9.6
TEXAS	4.1	4.1	1.9	3.2	.9	3.5	2.3	7.7	3.6	10.7	2.7
PENNSYLVANIA	3.9	3.3	2.1	3.0	7.5	4.6	10.0	3.2	3.5	2.0	3.8
OHIO	3.8	1.5	.4	4.3	4.0	2.7	1.0	1.8	10.2	3.7	1.8
FLORIDA	3.6	2.3	5.9	3.8	.4	1.2	1.0	.7	2.8	9.4	1.8
NEW MEXICO	3.4	.4	.1	2.5	12.7	.4	1.3	.5	.1	.6	.5
VIRGINIA	3.4	.8	2.1	4.2	.8	1.5	8.1	8.4	4.2	5.1	1.8
WASHINGTON	3.1	1.8	7.2	3.7	4.9	2.2	3.0	2.0	1.0	.6	1.8
MISSOURI	2.8	1.3	.6	5.4	.1	1.8	2.6	.7	1.3	.1	.9
DISTRICT OF COLUMBIA	2.8	9.9	3.0	2.1	2.8	2.6	2.9	10.0	6.3	1.4	9.0
NEW JERSEY	2.3	.4	6.0	3.6	1.6	.9	1.1	3.1	3.2	.9	1.6
TENNESSEE	2.3	1.0	.1	1.0	9.6	1.2	.4	.3	2.1	.2	.6
ALABAMA	2.0	1.2	.2	1.9	1.0	1.0	1.1	.8	.7	5.0	.2
ILLINOIS	2.0	3.9	1.7	.3	6.5	3.0	1.2	1.2	1.9	.3	5.1
COLORADO	1.6	1.9	9.6	.7	2.4	1.2	9.3	4.3	1.6	1.3	5.2
CONNECTICUT	1.2	.5	.9	1.0	.3	2.0	.3	2.1	.6	2.2	1.3
MICHIGAN	.9	1.6	1.6	.7	.9	1.9	2.0	1.4	.8	.2	2.7
NEVADA	.8	.2	*	.1	4.0	*	2.4	*	1.5	*	.2
NORTH CAROLINA	.8	2.3	1.7	.2	.1	3.1	.8	.3	12.6	.1	1.3
UTAH	.8	.9	*	.5	.3	.8	3.6	.6	.3	1.7	.7
LOUISIANA	.7	4.4	.5	.1	.2	.6	.4	.3	.8	3.1	.3
MINNESOTA	.7	1.8	.4	.6	.1	2.0	2.4	1.0	2.3	.2	1.4
ARIZONA	.7	1.5	.2	.8	.3	.5	1.5	1.0	.2	.4	4.0
GEORGIA	.7	3.9	.9	.5	.1	1.6	1.1	.7	3.2	.2	1.0
IDAHO	.5	1.2	.1	*	2.8	*	1.3	.7	.1	*	*
RHODE ISLAND	.5	.2	.5	.9	.1	.3	.2	.1	1.3	*	1.4
KANSAS	.5	.8	*	.9	*	.5	.2	.1	.2	*	.4
INDIANA	.4	1.0	.2	.4	.2	.8	.4	.4	.4	.1	2.0
SOUTH CAROLINA	.4	1.3	1.0	.1	1.6	.3	.5	.1	.3	*	.4
WISCONSIN	.4	2.8	.6	*	.1	1.6	.8	*	.8	.1	2.2
WEST VIRGINIA	.4	.9	*	*	1.3	.3	1.3	.6	.4	*	2.3
MISSISSIPPI	.4	2.9	1.7	.3	.2	.2	.9	.4	.1	.4	.1
OREGON	.4	2.3	1.6	*	.2	.8	2.5	.9	2.6	.1	1.3
NEW HAMPSHIRE	.3	.4	.3	.2	1.1	.2	.3	*	.2	*	.2
IOWA	.3	2.6	*	.1	.3	.8	.5	.2	.6	.1	.5
OKLAHOMA	.3	1.2	1.1	*	.6	.3	.5	2.2	.9	*	.3
ALASKA	.2	.7	2.0	.1	*	*	3.6	.3	.2	*	.3
KENTUCKY	.2	1.0	.1	.1	*	.4	.5	.1	.7	*	.3
MONTANA	.1	1.7	*	*	.2	.2	2.3	.2	.3	*	.2
WYOMING	.1	.4	*	*	.6	*	1.1	.1	.2	*	.2
HAWAII	.1	.5	1.1	.1	.1	.2	.5	*	.1	.1	.6
ARKANSAS	.1	.8	.1	*	.1	.5	.5	.1	1.1	*	.1
VERMONT	.1	.3	.1	.2	*	.3	.2	*	.4	*	*
NORTH DAKOTA	.1	1.8	.1	*	.2	*	1.0	*	.1	-	.1
NEBRASKA	.1	1.6	*	*	*	.3	.3	.2	.1	*	.5
MAINE	.1	.4	.4	*	*	.2	.4	.5	.4	*	.3
DELAWARE	.1	.3	.4	*	*	.1	.2	.1	.1	*	.4
SOUTH DAKOTA	*	.6	*	*	*	*	.6	.3	.1	*	.1
OUTLYING AREAS	.1	.8	.4	.1	.1	.1	.3	*	-	.1	.6
OFFICES ABROAD	.2	-	-	.1	.3	*	-	-	-	.8	-

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-10B. PERCENT DISTRIBUTION OF FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT OF EACH STATE, BY AGENCY: FISCAL YEAR 1979

STATE (IN ORDER OF TOTAL FEDERAL R&D OBLIGATIONS)	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL....................	100.0%	2.4%	1.1%	44.6%	16.6%	12.4%	1.5%	1.3%	1.5%	15.8%	2.9%
CALIFORNIA...............	100.0	.6	.2	54.9	11.0	5.9	.6	.4	.6	23.9	1.9
MARYLAND.................	100.0	2.9	3.4	37.0	2.4	32.2	.6	2.2	1.2	17.4	.6
MASSACHUSETTS............	100.0	.2	.8	63.5	13.0	12.6	.5	2.8	.7	2.6	3.2
NEW YORK.................	100.0	1.5	1.1	39.7	18.9	26.8	.6	.9	.9	4.0	5.7
TEXAS....................	100.0	2.4	.5	34.7	3.7	10.7	.8	2.5	1.3	41.5	1.9
PENNSYLVANIA.............	100.0	2.0	.6	34.2	31.8	14.6	3.7	1.1	1.3	8.0	2.8
OHIO.....................	100.0	.9	.1	51.1	17.4	8.8	.4	.6	4.0	15.4	1.3
FLORIDA..................	100.0	1.5	1.8	46.8	1.9	3.9	.4	.3	1.1	40.9	1.4
NEW MEXICO...............	100.0	.3	*	32.7	61.5	1.6	.6	.2	*	2.7	.4
VIRGINIA.................	100.0	.6	.7	55.2	3.8	5.7	3.5	3.3	1.8	23.9	1.6
WASHINGTON...............	100.0	1.3	2.6	53.2	26.4	9.0	1.4	.9	.5	3.1	1.7
MISSOURI.................	100.0	1.1	.2	86.1	.4	8.1	1.3	.3	.7	.8	.9
DISTRICT OF COLUMBIA.....	100.0	8.5	1.2	34.6	16.8	11.7	1.6	4.8	3.3	8.0	9.4
NEW JERSEY...............	100.0	.4	2.9	68.1	11.3	4.7	.7	1.8	2.0	6.2	2.0
TENNESSEE................	100.0	1.0	.1	19.9	68.8	6.2	.3	.2	1.4	1.4	.8
ALABAMA..................	100.0	1.4	.1	43.1	7.9	6.3	.8	.5	.5	39.1	.3
ILLINOIS.................	100.0	4.7	1.0	7.6	55.0	18.8	.9	.8	1.4	2.2	7.6
COLORADO.................	100.0	2.9	6.7	19.6	25.2	9.6	8.6	3.6	1.5	12.7	9.6
CONNECTICUT..............	100.0	1.0	.8	36.3	4.0	21.2	.4	2.4	.7	30.1	3.1
MICHIGAN.................	100.0	3.9	1.9	34.9	15.6	25.4	3.1	1.9	1.3	3.7	8.3
NEVADA...................	100.0	.7	*	6.6	83.8	.4	4.4	*	2.8	.5	.8
NORTH CAROLINA...........	100.0	6.9	2.4	9.3	2.2	48.0	1.5	.5	23.2	1.3	4.6
UTAH.....................	100.0	3.0	.1	31.9	6.1	12.4	6.8	1.1	.5	35.4	2.7
LOUISIANA................	100.0	13.9	.7	3.8	4.1	9.4	.9	.5	1.5	64.3	1.0
MINNESOTA................	100.0	5.8	.6	37.0	2.2	33.5	4.7	1.7	4.6	4.3	5.5
ARIZONA..................	100.0	5.1	.4	48.5	6.1	8.9	3.1	1.8	.5	9.4	16.2
GEORGIA..................	100.0	13.8	1.5	31.9	3.3	29.5	2.5	1.4	7.0	4.6	4.3
IDAHO....................	100.0	5.3	.1	.3	87.5	.8	3.7	1.7	.3	*	.3
RHODE ISLAND.............	100.0	.8	1.1	75.4	1.7	7.6	.6	.2	3.9	.5	8.2
KANSAS...................	100.0	4.1	*	78.6	.3	11.7	.7	.4	.7	1.2	2.3
INDIANA..................	100.0	5.2	.4	44.1	6.2	21.8	1.4	1.2	1.2	4.9	13.6
SOUTH CAROLINA...........	100.0	7.6	2.6	9.8	64.2	9.3	1.7	.2	1.2	.4	3.1
WISCONSIN................	100.0	16.6	1.6	3.2	3.7	49.1	2.9	.1	3.0	3.9	16.0
WEST VIRGINIA............	100.0	5.6	.1	3.5	54.8	10.0	4.9	2.2	1.5	.1	17.2
MISSISSIPPI..............	100.0	19.0	5.4	39.9	7.6	5.9	3.6	1.4	.3	16.6	.5
OREGON...................	100.0	14.9	4.8	3.7	10.7	28.1	10.3	3.5	10.6	2.6	10.7
NEW HAMPSHIRE............	100.0	2.8	1.0	25.8	56.0	8.6	1.4	*	.9	1.5	1.9
IOWA.....................	100.0	20.4	.2	16.0	15.3	33.3	2.3	.9	2.8	4.3	4.7
OKLAHOMA.................	100.0	11.6	5.0	7.6	36.6	13.1	2.8	11.8	5.5	2.7	3.3
ALASKA...................	100.0	10.4	13.5	31.8	.9	.8	31.5	2.3	1.4	2.8	4.6
KENTUCKY.................	100.0	15.4	.5	25.3	4.4	35.6	4.8	1.0	6.7	1.6	4.8
MONTANA..................	100.0	27.1	.2	.6	26.5	15.2	21.9	1.7	2.8	*	3.9
WYOMING..................	100.0	5.9	.1	.9	72.7	1.2	11.2	1.0	1.9	.8	4.3
HAWAII...................	100.0	8.5	8.1	25.0	11.8	20.7	5.3	.4	.7	6.7	12.7
ARKANSAS.................	100.0	13.5	1.0	6.5	10.0	47.9	5.4	1.3	11.5	.2	2.7
VERMONT..................	100.0	9.4	.6	57.3	.2	28.9	1.7	.2	4.5	.4	.7
NORTH DAKOTA.............	100.0	35.3	.7	16.5	29.5	3.0	12.5	*	.7	-	1.6
NEBRASKA.................	100.0	33.6	.1	15.8	1.3	27.8	4.2	2.5	.8	.4	13.6
MAINE....................	100.0	12.5	5.2	14.5	4.4	29.2	7.4	7.5	7.3	1.6	10.9
DELAWARE.................	100.0	14.4	7.9	11.2	7.5	19.2	4.4	2.0	4.2	4.6	29.7
SOUTH DAKOTA.............	100.0	40.7	.5	.3	5.7	9.1	24.4	9.6	2.9	2.2	4.5
OUTLYING AREAS...........	100.0	13.6	3.2	46.1	6.6	9.7	2.6	*	-	5.8	12.4
OFFICES ABROAD...........	100.0	-	-	17.2	22.2	*	-	-	-	60.7	-

* PERCENTAGE LESS THAN .05%.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
TOTAL	27,916,790	7,195,898	12,812,210	1,230,037	3,740,394	1,485,922	863,232	355,353	233,744
DEPARTMENT OF AGRICULTURE	661,539	455,467	4,699	-	199,772	-	322	-	1,279
DEPARTMENT OF COMMERCE	308,986	196,853	35,914	-	33,227	378	19,175	-	23,439
DEPARTMENT OF DEFENSE	12,443,581	3,676,899	7,773,063	114,541	432,069	121,029	114,199	211,655	126
DEPARTMENT OF ENERGY	4,635,295	361,892	1,547,875	1,084,351	260,090	1,169,291	57,032	139,666	15,098
DEPARTMENT OF HEALTH & HUMAN SRVCS	3,473,365	728,882	151,437	29,148	1,941,917	11,158	526,249	1,845	82,729
DEPARTMENT OF THE INTERIOR	405,489	249,948	66,896	-	42,981	645	4,312	281	40,426
DEPARTMENT OF TRANSPORTATION	370,089	110,277	184,128	-	19,901	340	16,319	-	39,124
ENVIRONMENTAL PROTECTION AGENCY	407,800	175,340	112,320	-	49,800	-	40,170	1,350	28,820
NATIONAL AERONAUTICS AND SPACE ADMIN	4,403,539	1,177,134	2,919,544	-	143,961	115,717	45,393	380	1,410
NATIONAL SCIENCE FOUNDATION	807,107	63,206	16,334	1,997	616,676	67,364	40,061	176	1,293
NEW ENGLAND									
TOTAL	2,685,116	382,208	1,431,899	3,815	489,960	93,001	199,199	68,081	16,953
DEPARTMENT OF AGRICULTURE	15,770	5,719	90	-	9,332	-	10	-	619
DEPARTMENT OF COMMERCE	23,639	7,640	5,759	-	4,033	-	4,157	-	2,050
DEPARTMENT OF DEFENSE	1,584,073	297,584	977,851	-	110,661	87,548	43,149	67,280	-
DEPARTMENT OF ENERGY	338,123	1,074	275,360	3,815	49,854	4,698	3,322	-	7,804
DEPARTMENT OF HEALTH & HUMAN SRVCS	366,566	1,476	24,799	-	209,121	-	123,365	1	7,804
DEPARTMENT OF THE INTERIOR	16,128	4,715	7,771	-	2,349	294	-	-	999
DEPARTMENT OF TRANSPORTATION	67,740	55,926	7,572	-	1,041	-	577	-	2,624
ENVIRONMENTAL PROTECTION AGENCY	26,305	4,291	12,182	-	3,760	-	2,486	800	2,786
NATIONAL AERONAUTICS AND SPACE ADMIN	155,368	3,757	118,267	-	16,521	70	16,753	-	-
NATIONAL SCIENCE FOUNDATION	91,404	26	2,248	-	83,288	391	5,380	-	71
CONNECTICUT									
TOTAL	328,399	17,745	214,698	3,815	83,887	-	4,826	-	3,428
DEPARTMENT OF AGRICULTURE	3,259	1,485	-	-	1,203	-	-	-	571
DEPARTMENT OF COMMERCE	2,665	1,371	1,002	-	35	-	-	-	257
DEPARTMENT OF DEFENSE	119,179	9,585	107,074	-	2,464	-	56	-	-
DEPARTMENT OF ENERGY	13,165	-	4,516	3,815	4,834	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	69,772	-	177	-	64,781	-	3,365	-	1,449
DEPARTMENT OF THE INTERIOR	1,260	719	349	-	110	-	-	-	82
DEPARTMENT OF TRANSPORTATION	7,861	4,350	2,036	-	95	-	575	-	805
ENVIRONMENTAL PROTECTION AGENCY	2,253	-	1,463	-	174	-	387	-	229
NATIONAL AERONAUTICS AND SPACE ADMIN	98,773	235	97,732	-	806	-	-	-	-
NATIONAL SCIENCE FOUNDATION	10,212	-	349	-	9,385	-	443	-	35
MAINE									
TOTAL	23,096	2,797	4,786	-	4,839	-	7,107	-	3,567
DEPARTMENT OF AGRICULTURE	2,892	1,038	46	-	1,750	-	-	-	48
DEPARTMENT OF COMMERCE	1,205	-	673	-	175	-	110	-	247
DEPARTMENT OF DEFENSE	3,346	656	2,590	-	100	-	-	-	-
DEPARTMENT OF ENERGY	1,023	-	547	-	284	-	192	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	6,736	-	-	-	283	-	5,364	-	1,089
DEPARTMENT OF THE INTERIOR	1,718	973	251	-	186	-	-	-	308
DEPARTMENT OF TRANSPORTATION	1,731	101	-	-	-	-	-	-	1,630
ENVIRONMENTAL PROTECTION AGENCY	1,685	-	536	-	121	-	783	-	245
NATIONAL AERONAUTICS AND SPACE ADMIN	367	29	143	-	-	-	195	-	-
NATIONAL SCIENCE FOUNDATION	2,403	-	-	-	1,940	-	463	-	-
MASSACHUSETTS									
TOTAL	2,062,337	242,199	1,121,206	-	351,306	93,001	180,054	68,081	6,490
DEPARTMENT OF AGRICULTURE	3,804	1,217	31	-	2,546	-	10	-	-
DEPARTMENT OF COMMERCE	17,147	6,155	3,993	-	1,951	-	3,727	-	1,321
DEPARTMENT OF DEFENSE	1,310,308	175,479	830,913	-	106,018	87,548	43,070	67,280	-
DEPARTMENT OF ENERGY	268,756	974	217,486	-	42,560	4,698	3,038	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	260,707	1,476	24,419	-	121,401	-	109,086	1	4,324
DEPARTMENT OF THE INTERIOR	10,328	2,000	6,848	-	1,174	294	-	-	12
DEPARTMENT OF TRANSPORTATION	57,770	51,407	5,338	-	946	-	2	-	77
ENVIRONMENTAL PROTECTION AGENCY	14,415	87	10,125	-	2,252	-	431	800	720
NATIONAL AERONAUTICS AND SPACE ADMIN	53,969	3,388	20,177	-	13,854	70	16,480	-	-
NATIONAL SCIENCE FOUNDATION	65,133	16	1,876	-	58,604	391	4,210	-	36
NEW HAMPSHIRE									
TOTAL	94,089	13,578	64,691	-	14,460	-	567	-	793
DEPARTMENT OF AGRICULTURE	2,660	1,375	13	-	1,272	-	-	-	-
DEPARTMENT OF COMMERCE	921	1	1	-	704	-	100	-	115
DEPARTMENT OF DEFENSE	24,242	11,325	12,124	-	793	-	-	-	-
DEPARTMENT OF ENERGY	52,729	100	51,959	-	660	-	10	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	8,085	-	203	-	7,626	-	-	-	256
DEPARTMENT OF THE INTERIOR	1,336	735	189	-	276	-	-	-	136
DEPARTMENT OF TRANSPORTATION	47	-	39	-	-	-	-	-	8
ENVIRONMENTAL PROTECTION AGENCY	871	-	58	-	111	-	424	-	278
NATIONAL AERONAUTICS AND SPACE ADMIN	1,410	32	82	-	1,263	-	33	-	-
NATIONAL SCIENCE FOUNDATION	1,788	10	23	-	1,755	-	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
RHODE ISLAND									
TOTAL	140,680	93,726	16,970	-	23,652	-	5,688	-	644
DEPARTMENT OF AGRICULTURE	1,182	-	-	-	1,182	-	-	-	-
DEPARTMENT OF COMMERCE	1,479	76	90	-	1,168	-	60	-	85
DEPARTMENT OF DEFENSE	106,077	89,299	15,643	-	1,112	-	23	-	-
DEPARTMENT OF ENERGY	2,378	-	852	-	1,444	-	82	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	10,720	-	-	-	5,463	-	5,042	-	215
DEPARTMENT OF THE INTERIOR	855	77	115	-	478	-	-	-	185
DEPARTMENT OF TRANSPORTATION	251	-	159	-	-	-	-	-	92
ENVIRONMENTAL PROTECTION AGENCY	5,428	4,204	-	-	985	-	172	-	67
NATIONAL AERONAUTICS AND SPACE ADMIN	715	70	111	-	489	-	45	-	-
NATIONAL SCIENCE FOUNDATION	11,595	-	-	-	11,331	-	264	-	-
VERMONT									
TOTAL	36,515	12,163	9,548	-	11,816	-	957	-	2,031
DEPARTMENT OF AGRICULTURE	1,983	604	-	-	1,379	-	-	-	-
DEPARTMENT OF COMMERCE	222	37	-	-	-	-	160	-	25
DEPARTMENT OF DEFENSE	20,921	11,240	9,507	-	174	-	-	-	-
DEPARTMENT OF ENERGY	72	-	-	-	72	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	10,546	-	-	-	9,567	-	508	-	471
DEPARTMENT OF THE INTERIOR	631	211	19	-	125	-	-	-	276
DEPARTMENT OF TRANSPORTATION	80	68	-	-	-	-	-	-	12
ENVIRONMENTAL PROTECTION AGENCY	1,653	-	-	-	117	-	289	-	1,247
NATIONAL AERONAUTICS AND SPACE ADMIN	134	3	22	-	109	-	-	-	-
NATIONAL SCIENCE FOUNDATION	273	-	-	-	273	-	-	-	-
MIDDLE ATLANTIC									
TOTAL	3,112,347	559,106	1,199,846	365,825	615,582	167,034	156,566	15	48,373
DEPARTMENT OF AGRICULTURE	44,740	28,352	358	-	15,821	-	177	-	32
DEPARTMENT OF COMMERCE	40,410	15,399	10,229	-	2,806	-	6,021	-	5,955
DEPARTMENT OF DEFENSE	1,358,663	437,657	739,083	111,551	47,074	14,794	8,489	15	-
DEPARTMENT OF ENERGY	680,363	39,385	208,910	254,274	27,974	147,974	956	-	890
DEPARTMENT OF HEALTH & HUMAN SRVCS	555,792	1,272	10,949	-	384,220	3,413	125,111	-	30,827
DEPARTMENT OF THE INTERIOR	52,760	19,940	25,232	-	4,657	-	878	-	2,053
DEPARTMENT OF TRANSPORTATION	35,994	11,051	17,015	-	3,873	-	83	-	3,972
ENVIRONMENTAL PROTECTION AGENCY	39,108	1,513	23,663	-	3,709	-	5,653	-	4,570
NATIONAL AERONAUTICS AND SPACE ADMIN	183,686	4,516	162,040	-	14,645	-	2,438	-	47
NATIONAL SCIENCE FOUNDATION	120,831	21	2,367	-	110,803	853	6,760	-	27
NEW JERSEY									
TOTAL	649,310	231,783	309,477	-	43,613	49,529	7,093	-	7,815
DEPARTMENT OF AGRICULTURE	2,776	326	7	-	2,438	-	-	-	5
DEPARTMENT OF COMMERCE	18,618	12,311	933	-	1,379	-	296	-	3,699
DEPARTMENT OF DEFENSE	441,876	206,569	233,322	-	1,889	-	96	-	-
DEPARTMENT OF ENERGY	73,091	-	20,941	-	2,621	49,529	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	30,631	-	4,630	-	20,013	-	3,502	-	2,486
DEPARTMENT OF THE INTERIOR	4,431	1,440	2,439	-	364	-	-	-	188
DEPARTMENT OF TRANSPORTATION	11,651	9,722	1,407	-	480	-	-	-	42
ENVIRONMENTAL PROTECTION AGENCY	12,930	1,232	7,580	-	418	-	2,275	-	1,425
NATIONAL AERONAUTICS AND SPACE ADMIN	40,524	183	37,717	-	2,624	-	-	-	-
NATIONAL SCIENCE FOUNDATION	12,812	-	501	-	11,387	-	924	-	-
NEW YORK									
TOTAL	1,363,103	112,708	475,455	148,110	378,044	117,505	93,398	15	37,868
DEPARTMENT OF AGRICULTURE	19,837	11,950	200	-	7,492	-	168	-	27
DEPARTMENT OF COMMERCE	15,155	1,355	8,541	-	1,077	-	2,755	-	1,427
DEPARTMENT OF DEFENSE	540,988	84,727	368,337	49,637	15,289	14,794	8,189	15	-
DEPARTMENT OF ENERGY	257,526	5,016	39,089	98,473	15,149	98,445	688	-	666
DEPARTMENT OF HEALTH & HUMAN SRVCS	364,849	1,013	5,206	-	254,226	3,413	73,071	-	27,920
DEPARTMENT OF THE INTERIOR	7,968	3,736	518	-	1,826	-	-	-	1,888
DEPARTMENT OF TRANSPORTATION	12,356	741	7,439	-	708	-	83	-	3,385
ENVIRONMENTAL PROTECTION AGENCY	11,932	160	4,913	-	2,350	-	2,028	-	2,481
NATIONAL AERONAUTICS AND SPACE ADMIN	54,921	3,989	40,470	-	8,108	-	2,307	-	47
NATIONAL SCIENCE FOUNDATION	77,571	21	742	-	71,819	853	4,109	-	27
PENNSYLVANIA									
TOTAL	1,099,934	214,615	414,914	217,715	193,925	-	56,075	-	2,690
DEPARTMENT OF AGRICULTURE	22,127	16,076	151	-	5,891	-	9	-	-
DEPARTMENT OF COMMERCE	6,637	1,733	755	-	350	-	2,970	-	829
DEPARTMENT OF DEFENSE	375,799	146,361	137,424	61,914	29,896	-	204	-	-
DEPARTMENT OF ENERGY	349,746	34,369	148,880	155,801	10,204	-	268	-	224
DEPARTMENT OF HEALTH & HUMAN SRVCS	160,312	259	1,113	-	109,981	-	48,538	-	421
DEPARTMENT OF THE INTERIOR	40,391	14,764	22,275	-	2,467	-	878	-	7
DEPARTMENT OF TRANSPORTATION	11,987	588	8,169	-	2,685	-	-	-	545
ENVIRONMENTAL PROTECTION AGENCY	14,246	121	11,170	-	941	-	1,350	-	664
NATIONAL AERONAUTICS AND SPACE ADMIN	88,241	344	83,853	-	3,913	-	131	-	-
NATIONAL SCIENCE FOUNDATION	30,448	-	1,124	-	27,597	-	1,727	-	-

CONTINUED ON NEXT PAGE

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITUTIONS	FFRDCS ADMIN BY NONPROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
EAST NORTH CENTRAL									
TOTAL	2,097,756	626,216	579,892	11,211	515,039	252,348	96,732	-	16,318
DEPARTMENT OF AGRICULTURE	70,958	43,597	410	-	26,867	-	-	-	84
DEPARTMENT OF COMMERCE	13,849	3,564	1,718	-	3,680	-	2,789	-	2,098
DEPARTMENT OF DEFENSE	728,907	344,556	320,307	-	52,424	-	11,620	-	-
DEPARTMENT OF ENERGY	537,163	70,247	157,668	11,211	24,670	251,936	19,897	-	1,534
DEPARTMENT OF HEALTH & HUMAN SRVCS	343,848	18,264	10,862	-	260,989	130	48,267	-	5,336
DEPARTMENT OF THE INTERIOR	22,095	12,632	2,590	-	3,369	150	366	-	2,988
DEPARTMENT OF TRANSPORTATION	17,603	2,562	9,028	-	4,086	-	695	-	1,232
ENVIRONMENTAL PROTECTION AGENCY	57,426	28,039	11,980	-	9,161	-	5,645	-	2,601
NATIONAL AERONAUTICS AND SPACE ADMIN	193,915	102,554	64,144	-	21,751	-	5,270	-	196
NATIONAL SCIENCE FOUNDATION	111,892	101	1,185	-	108,042	132	2,183	-	249
ILLINOIS									
TOTAL	547,226	47,552	49,568	-	154,005	252,348	38,753	-	5,000
DEPARTMENT OF AGRICULTURE	25,910	19,226	228	-	6,456	-	-	-	-
DEPARTMENT OF COMMERCE	5,338	964	471	-	745	-	2,574	-	584
DEPARTMENT OF DEFENSE	41,622	17,127	15,876	-	7,435	-	1,184	-	-
DEPARTMENT OF ENERGY	301,090	5,431	20,845	-	8,565	251,936	14,200	-	113
DEPARTMENT OF HEALTH & HUMAN SRVCS	102,920	108	1,826	-	81,490	130	17,220	-	2,146
DEPARTMENT OF THE INTERIOR	4,897	2,092	936	-	1,164	150	197	-	358
DEPARTMENT OF TRANSPORTATION	4,400	255	2,217	-	622	-	324	-	982
ENVIRONMENTAL PROTECTION AGENCY	7,612	1,474	1,632	-	2,320	-	1,416	-	770
NATIONAL AERONAUTICS AND SPACE ADMIN	12,052	774	4,843	-	5,850	-	585	-	-
NATIONAL SCIENCE FOUNDATION	41,385	101	694	-	39,358	132	1,053	-	47
INDIANA									
TOTAL	121,999	31,076	32,093	-	55,663	-	2,464	-	703
DEPARTMENT OF AGRICULTURE	6,388	1,824	23	-	4,541	-	-	-	-
DEPARTMENT OF COMMERCE	477	-	259	-	63	-	65	-	90
DEPARTMENT OF DEFENSE	53,841	25,635	26,375	-	1,780	-	51	-	-
DEPARTMENT OF ENERGY	7,577	750	1,067	-	5,547	-	65	-	148
DEPARTMENT OF HEALTH & HUMAN SRVCS	26,589	-	2,310	-	22,708	-	1,411	-	160
DEPARTMENT OF THE INTERIOR	1,670	1,083	212	-	234	-	-	-	141
DEPARTMENT OF TRANSPORTATION	1,458	395	282	-	740	-	-	-	41
ENVIRONMENTAL PROTECTION AGENCY	1,489	330	297	-	541	-	239	-	82
NATIONAL AERONAUTICS AND SPACE ADMIN	5,975	1,059	882	-	3,401	-	633	-	-
NATIONAL SCIENCE FOUNDATION	16,535	-	386	-	16,108	-	-	-	41
MICHIGAN									
TOTAL	264,357	54,436	92,468	-	100,043	-	12,382	-	5,028
DEPARTMENT OF AGRICULTURE	10,340	4,592	91	-	5,633	-	-	-	24
DEPARTMENT OF COMMERCE	5,009	2,581	618	-	1,106	-	130	-	574
DEPARTMENT OF DEFENSE	92,213	41,459	45,088	-	3,540	-	2,126	-	-
DEPARTMENT OF ENERGY	41,241	-	36,195	-	4,988	-	58	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	67,057	-	2,813	-	53,243	-	8,477	-	2,524
DEPARTMENT OF THE INTERIOR	8,094	5,648	114	-	749	-	-	-	1,583
DEPARTMENT OF TRANSPORTATION	5,081	84	3,437	-	1,413	-	-	-	147
ENVIRONMENTAL PROTECTION AGENCY	3,412	-	664	-	2,257	-	315	-	176
NATIONAL AERONAUTICS AND SPACE ADMIN	9,875	72	3,448	-	5,119	-	1,236	-	-
NATIONAL SCIENCE FOUNDATION	22,035	-	-	-	21,995	-	40	-	-
OHIO									
TOTAL	1,053,175	477,706	400,375	11,211	120,003	-	40,124	-	3,756
DEPARTMENT OF AGRICULTURE	9,857	4,587	33	-	5,177	-	-	-	60
DEPARTMENT OF COMMERCE	1,297	18	340	-	140	-	20	-	779
DEPARTMENT OF DEFENSE	537,696	260,052	232,001	-	37,389	-	8,254	-	-
DEPARTMENT OF ENERGY	183,194	64,066	99,505	11,211	2,257	-	5,574	-	581
DEPARTMENT OF HEALTH & HUMAN SRVCS	92,812	18,156	2,239	-	53,139	-	19,006	-	272
DEPARTMENT OF THE INTERIOR	4,199	2,026	740	-	759	-	169	-	505
DEPARTMENT OF TRANSPORTATION	6,611	1,928	3,034	-	1,246	-	371	-	32
ENVIRONMENTAL PROTECTION AGENCY	41,625	26,235	8,435	-	2,912	-	2,837	-	1,206
NATIONAL AERONAUTICS AND SPACE ADMIN	161,723	100,638	54,025	-	4,048	-	2,816	-	196
NATIONAL SCIENCE FOUNDATION	14,161	-	23	-	12,936	-	1,077	-	125
WISCONSIN									
TOTAL	110,999	15,446	5,388	-	85,325	-	3,009	-	1,831
DEPARTMENT OF AGRICULTURE	18,463	13,368	35	-	5,060	-	-	-	-
DEPARTMENT OF COMMERCE	1,728	1	30	-	1,626	-	-	-	71
DEPARTMENT OF DEFENSE	3,535	283	967	-	2,280	-	5	-	-
DEPARTMENT OF ENERGY	4,061	-	56	-	3,313	-	-	-	692
DEPARTMENT OF HEALTH & HUMAN SRVCS	54,470	-	1,674	-	50,409	-	2,153	-	234
DEPARTMENT OF THE INTERIOR	3,235	1,783	588	-	463	-	-	-	401
DEPARTMENT OF TRANSPORTATION	153	-	58	-	65	-	-	-	30
ENVIRONMENTAL PROTECTION AGENCY	3,288	-	952	-	1,131	-	838	-	367
NATIONAL AERONAUTICS AND SPACE ADMIN	4,290	11	946	-	3,333	-	-	-	-
NATIONAL SCIENCE FOUNDATION	17,776	-	82	-	17,645	-	13	-	36

CONTINUED ON NEXT PAGE

TABLE C-151. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WEST NORTH CENTRAL									
TOTAL	1,277,818	108,917	866,020	-	231,566	12,836	39,138	-	19,371
DEPARTMENT OF AGRICULTURE	69,980	42,396	461	-	27,096	-	-	-	27
DEPARTMENT OF COMMERCE	3,477	221	432	-	760	-	132	-	1,962
DEPARTMENT OF DEFENSE	876,839	33,810	838,423	-	4,328	-	278	-	-
DEPARTMENT OF ENERGY	31,878	6,728	7,144	-	4,820	12,552	391	-	253
DEPARTMENT OF HEALTH & HUMAN SRVCS	185,959	103	271	-	149,014	-	33,694	-	2,907
DEPARTMENT OF THE INTERIOR	30,818	18,874	2,654	-	4,291	-	48	-	4,951
DEPARTMENT OF TRANSPORTATION	8,975	-	1,834	-	788	-	271	-	6,082
ENVIRONMENTAL PROTECTION AGENCY	18,999	6,034	2,914	-	3,484	-	3,617	-	2,950
NATIONAL AERONAUTICS AND SPACE ADMIN	20,467	751	11,818	-	7,614	284	-	-	-
NATIONAL SCIENCE FOUNDATION	30,396	-	69	-	29,371	-	717	-	239
IOWA									
TOTAL	84,872	11,940	12,529	-	43,842	12,836	1,407	-	2,318
DEPARTMENT OF AGRICULTURE	17,311	10,754	134	-	6,423	-	-	-	-
DEPARTMENT OF COMMERCE	151	-	30	-	96	-	-	-	25
DEPARTMENT OF DEFENSE	13,590	362	11,969	-	1,236	-	23	-	-
DEPARTMENT OF ENERGY	12,946	-	-	-	394	12,552	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	28,271	-	-	-	27,488	-	598	-	185
DEPARTMENT OF THE INTERIOR	1,929	598	16	-	386	-	-	-	929
DEPARTMENT OF TRANSPORTATION	728	-	185	-	199	-	-	-	344
ENVIRONMENTAL PROTECTION AGENCY	2,371	207	-	-	543	-	786	-	835
NATIONAL AERONAUTICS AND SPACE ADMIN	3,628	19	195	-	3,130	284	-	-	-
NATIONAL SCIENCE FOUNDATION	3,947	-	-	-	3,947	-	-	-	-
KANSAS									
TOTAL	136,330	4,185	106,521	-	23,218	-	1,455	-	951
DEPARTMENT OF AGRICULTURE	5,554	2,695	33	-	2,826	-	-	-	-
DEPARTMENT OF COMMERCE	25	-	-	-	-	-	-	-	25
DEPARTMENT OF DEFENSE	107,195	973	105,754	-	429	-	39	-	-
DEPARTMENT OF ENERGY	414	-	-	-	147	-	186	-	81
DEPARTMENT OF HEALTH & HUMAN SRVCS	16,005	-	-	-	15,216	-	772	-	17
DEPARTMENT OF THE INTERIOR	895	514	80	-	179	-	-	-	122
DEPARTMENT OF TRANSPORTATION	549	-	130	-	65	-	-	-	354
ENVIRONMENTAL PROTECTION AGENCY	954	-	135	-	103	-	364	-	352
NATIONAL AERONAUTICS AND SPACE ADMIN	1,642	3	366	-	1,273	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,097	-	23	-	2,980	-	94	-	-
MINNESOTA									
TOTAL	202,761	20,926	87,087	-	64,282	-	24,551	-	5,915
DEPARTMENT OF AGRICULTURE	11,766	6,835	39	-	4,892	-	-	-	-
DEPARTMENT OF COMMERCE	1,274	1	68	-	453	-	-	-	752
DEPARTMENT OF DEFENSE	74,992	593	73,335	-	1,064	-	-	-	-
DEPARTMENT OF ENERGY	4,422	-	3,457	-	835	-	-	-	130
DEPARTMENT OF HEALTH & HUMAN SRVCS	68,025	-	271	-	42,334	-	23,682	-	1,738
DEPARTMENT OF THE INTERIOR	9,569	7,681	910	-	631	-	-	-	347
DEPARTMENT OF TRANSPORTATION	3,525	-	1,220	-	254	-	-	-	2,051
ENVIRONMENTAL PROTECTION AGENCY	9,427	5,743	746	-	1,335	-	706	-	897
NATIONAL AERONAUTICS AND SPACE ADMIN	8,643	73	7,018	-	1,552	-	-	-	-
NATIONAL SCIENCE FOUNDATION	11,118	-	23	-	10,932	-	163	-	-
MISSOURI									
TOTAL	778,948	42,713	647,209	-	73,011	-	10,556	-	5,459
DEPARTMENT OF AGRICULTURE	8,880	3,286	35	-	5,539	-	-	-	20
DEPARTMENT OF COMMERCE	1,714	220	334	-	100	-	50	-	1,010
DEPARTMENT OF DEFENSE	670,564	31,756	637,140	-	1,452	-	216	-	-
DEPARTMENT OF ENERGY	3,246	-	1,570	-	1,676	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	63,056	102	-	-	54,679	-	8,208	-	67
DEPARTMENT OF THE INTERIOR	10,434	6,613	1,585	-	713	-	48	-	1,475
DEPARTMENT OF TRANSPORTATION	2,414	-	262	-	-	-	271	-	1,881
ENVIRONMENTAL PROTECTION AGENCY	5,471	84	2,033	-	1,185	-	1,303	-	866
NATIONAL AERONAUTICS AND SPACE ADMIN	6,198	652	4,227	-	1,319	-	-	-	-
NATIONAL SCIENCE FOUNDATION	6,971	-	23	-	6,348	-	460	-	140
NEBRASKA									
TOTAL	31,294	7,748	5,137	-	16,500	-	568	-	1,341
DEPARTMENT OF AGRICULTURE	10,515	7,119	81	-	3,315	-	-	-	-
DEPARTMENT OF COMMERCE	25	-	-	-	-	-	-	-	25
DEPARTMENT OF DEFENSE	4,955	125	4,719	-	111	-	-	-	-
DEPARTMENT OF ENERGY	399	-	259	-	140	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	8,696	-	-	-	8,108	-	433	-	155
DEPARTMENT OF THE INTERIOR	1,315	501	45	-	240	-	-	-	529
DEPARTMENT OF TRANSPORTATION	769	-	21	-	180	-	-	-	568
ENVIRONMENTAL PROTECTION AGENCY	235	-	-	-	100	-	135	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	128	3	12	-	113	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,257	-	-	-	4,193	-	-	-	64

CONTINUED ON NEXT PAGE

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
NORTH DAKOTA									
TOTAL	33,431	18,430	7,296	-	6,018	-	219	-	1,468
DEPARTMENT OF AGRICULTURE	11,805	9,371	116	-	2,318	-	-	-	-
DEPARTMENT OF COMMERCE	237	-	-	-	85	-	52	-	100
DEPARTMENT OF DEFENSE	5,517	-	5,506	-	11	-	-	-	-
DEPARTMENT OF ENERGY	9,870	6,728	1,656	-	1,444	-	-	-	42
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,010	1	-	-	618	-	-	-	391
DEPARTMENT OF THE INTERIOR	4,193	2,330	18	-	955	-	-	-	890
DEPARTMENT OF TRANSPORTATION	10	-	-	-	-	-	-	-	10
ENVIRONMENTAL PROTECTION AGENCY	245	-	-	-	78	-	167	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	-	-	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	544	-	-	-	509	-	-	-	35
SOUTH DAKOTA									
TOTAL	10,182	2,975	241	-	4,695	-	352	-	1,919
DEPARTMENT OF AGRICULTURE	4,149	2,336	23	-	1,783	-	-	-	7
DEPARTMENT OF COMMERCE	51	-	-	-	26	-	-	-	25
DEPARTMENT OF DEFENSE	26	1	-	-	25	-	-	-	-
DEPARTMENT OF ENERGY	581	-	202	-	184	-	195	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	926	-	-	-	571	-	1	-	354
DEPARTMENT OF THE INTERIOR	2,483	637	-	-	1,187	-	-	-	659
DEPARTMENT OF TRANSPORTATION	980	-	16	-	90	-	-	-	874
ENVIRONMENTAL PROTECTION AGENCY	296	-	-	-	140	-	156	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	228	1	-	-	227	-	-	-	-
NATIONAL SCIENCE FOUNDATION	462	-	-	-	462	-	-	-	-
SOUTH ATLANTIC									
TOTAL	5,726,924	3,105,507	1,753,093	74,716	604,188	19,029	123,126	14,414	32,851
DEPARTMENT OF AGRICULTURE	212,625	170,903	1,603	-	39,961	-	18	-	140
DEPARTMENT OF COMMERCE	127,742	106,872	7,102	-	5,638	-	4,549	-	3,581
DEPARTMENT OF DEFENSE	2,229,579	1,208,762	871,606	-	119,674	325	17,871	11,341	-
DEPARTMENT OF ENERGY	384,872	133,946	134,863	45,568	57,658	775	7,360	3,073	1,629
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,127,075	677,208	88,265	29,148	280,967	-	43,168	-	8,319
DEPARTMENT OF THE INTERIOR	79,500	61,990	6,231	-	4,861	-	1,210	-	5,208
DEPARTMENT OF TRANSPORTATION	129,262	29,591	77,944	-	2,856	-	13,564	-	5,307
ENVIRONMENTAL PROTECTION AGENCY	150,430	106,222	17,031	-	10,762	-	8,509	-	7,906
NATIONAL AERONAUTICS AND SPACE ADMIN	1,125,422	548,801	544,813	-	19,137	-	12,148	-	523
NATIONAL SCIENCE FOUNDATION	160,417	61,212	3,635	-	62,674	17,929	14,729	-	238
DELAWARE									
TOTAL	14,392	1,273	1,807	-	9,262	-	1,623	-	417
DEPARTMENT OF AGRICULTURE	2,070	675	9	-	1,386	-	-	-	-
DEPARTMENT OF COMMERCE	1,143	391	-	-	707	-	-	-	45
DEPARTMENT OF DEFENSE	1,615	1	948	-	666	-	-	-	-
DEPARTMENT OF ENERGY	1,081	-	-	-	958	-	3	-	120
DEPARTMENT OF HEALTH & HUMAN SRVCS	2,760	-	-	-	1,480	-	1,235	-	45
DEPARTMENT OF THE INTERIOR	632	202	96	-	251	-	-	-	83
DEPARTMENT OF TRANSPORTATION	281	-	275	-	-	-	-	-	6
ENVIRONMENTAL PROTECTION AGENCY	597	-	57	-	165	-	284	-	91
NATIONAL AERONAUTICS AND SPACE ADMIN	656	4	422	-	230	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,547	-	-	-	3,419	-	101	-	27
DISTRICT OF COLUMBIA									
TOTAL	768,394	527,230	123,504	-	70,415	-	45,602	-	1,643
DEPARTMENT OF AGRICULTURE	65,468	62,453	316	-	2,678	-	-	-	21
DEPARTMENT OF COMMERCE	9,362	6,982	1,028	-	288	-	904	-	160
DEPARTMENT OF DEFENSE	265,894	202,227	58,333	-	3,340	-	1,994	-	-
DEPARTMENT OF ENERGY	129,399	53,580	37,582	-	36,768	-	1,249	-	220
DEPARTMENT OF HEALTH & HUMAN SRVCS	89,898	43,057	9,695	-	21,208	-	15,354	-	584
DEPARTMENT OF THE INTERIOR	11,956	10,284	556	-	129	-	987	-	-
DEPARTMENT OF TRANSPORTATION	37,135	22,068	11,833	-	-	-	2,783	-	451
ENVIRONMENTAL PROTECTION AGENCY	25,703	23,629	259	-	334	-	1,414	-	67
NATIONAL AERONAUTICS AND SPACE ADMIN	61,147	48,165	1,898	-	2,429	-	8,515	-	140
NATIONAL SCIENCE FOUNDATION	72,432	54,785	2,004	-	3,241	-	12,402	-	-
FLORIDA									
TOTAL	1,017,303	366,037	566,744	-	69,058	-	9,695	-	5,769
DEPARTMENT OF AGRICULTURE	15,127	10,846	121	-	4,108	-	-	-	52
DEPARTMENT OF COMMERCE	18,368	13,712	957	-	1,750	-	234	-	1,715
DEPARTMENT OF DEFENSE	475,654	186,750	276,138	-	8,054	-	4,712	-	-
DEPARTMENT OF ENERGY	19,765	25	17,579	-	2,161	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	39,990	-	1,680	-	32,900	-	3,984	-	1,426
DEPARTMENT OF THE INTERIOR	3,941	2,950	49	-	706	-	-	-	236
DEPARTMENT OF TRANSPORTATION	2,601	-	366	-	785	-	-	-	1,450
ENVIRONMENTAL PROTECTION AGENCY	11,399	5,149	2,774	-	2,310	-	302	-	854
NATIONAL AERONAUTICS AND SPACE ADMIN	416,019	146,605	267,057	-	2,198	-	159	-	-
NATIONAL SCIENCE FOUNDATION	14,449	-	23	-	14,086	-	304	-	36

CONTINUED ON NEXT PAGE

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
GEORGIA									
TOTAL	184,437	65,375	52,518	-	54,593	-	4,897	-	7,024
DEPARTMENT OF AGRICULTURE	25,492	18,664	189	-	6,624	-	15	-	-
DEPARTMENT OF COMMERCE	2,743	82	52	-	540	-	1,540	-	529
DEPARTMENT OF DEFENSE	58,905	6,183	45,771	-	6,908	-	43	-	-
DEPARTMENT OF ENERGY	6,096	628	471	-	4,178	-	-	-	819
DEPARTMENT OF HEALTH & HUMAN SRVCS	54,464	23,916	29	-	25,456	-	2,522	-	2,541
DEPARTMENT OF THE INTERIOR	4,663	3,193	348	-	678	-	-	-	444
DEPARTMENT OF TRANSPORTATION	2,666	50	291	-	232	-	-	-	2,093
ENVIRONMENTAL PROTECTION AGENCY	12,910	11,081	308	-	498	-	425	-	598
NATIONAL AERONAUTICS AND SPACE ADMIN	8,553	1,578	5,059	-	1,916	-	-	-	-
NATIONAL SCIENCE FOUNDATION	7,915	-	-	-	7,563	-	352	-	-
MARYLAND									
TOTAL	2,359,810	1,510,541	581,209	29,148	211,880	300	17,146	2,998	6,588
DEPARTMENT OF AGRICULTURE	68,944	61,123	833	-	6,988	-	-	-	-
DEPARTMENT OF COMMERCE	81,146	79,183	856	-	840	-	10	-	257
DEPARTMENT OF DEFENSE	872,856	551,521	221,977	-	95,381	300	3,677	-	-
DEPARTMENT OF ENERGY	56,260	21,324	23,049	-	6,409	-	2,010	2,998	470
DEPARTMENT OF HEALTH & HUMAN SRVCS	759,339	581,918	55,811	29,148	81,828	-	9,095	-	1,539
DEPARTMENT OF THE INTERIOR	15,098	11,056	2,046	-	256	-	181	-	1,559
DEPARTMENT OF TRANSPORTATION	51,831	4,066	46,300	-	601	-	154	-	710
ENVIRONMENTAL PROTECTION AGENCY	28,387	16,883	6,714	-	2,415	-	570	-	1,805
NATIONAL AERONAUTICS AND SPACE ADMIN	410,685	182,68[illegible]	222,118	-	5,173	-	465	-	248
NATIONAL SCIENCE FOUNDATION	15,264	7[illegible]	1,505	-	11,999	-	984	-	-
NORTH CAROLINA									
TOTAL	220,940	86,055	13,742	-	105,617	775	13,508	-	1,243
DEPARTMENT OF AGRICULTURE	15,258	7,869	68	-	7,321	-	-	-	-
DEPARTMENT OF COMMERCE	5,361	2,445	214	-	746	-	1,701	-	255
DEPARTMENT OF DEFENSE	20,579	9,078	8,802	-	2,231	-	468	-	-
DEPARTMENT OF ENERGY	4,933	511	1,801	-	1,629	775	217	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	106,031	20,307	280	-	77,984	-	7,057	-	403
DEPARTMENT OF THE INTERIOR	3,328	1,920	416	-	918	-	-	-	74
DEPARTMENT OF TRANSPORTATION	1,051	338	108	-	584	-	-	-	21
ENVIRONMENTAL PROTECTION AGENCY	51,299	43,387	1,705	-	3,222	-	2,548	-	437
NATIONAL AERONAUTICS AND SPACE ADMIN	2,948	200	321	-	1,048	-	1,379	-	-
NATIONAL SCIENCE FOUNDATION	10,152	-	27	-	9,934	-	138	-	53
SOUTH CAROLINA									
TOTAL	114,252	14,100	28,782	45,568	18,675	-	5,447	-	1,680
DEPARTMENT OF AGRICULTURE	8,648	4,832	45	-	3,771	-	-	-	-
DEPARTMENT OF COMMERCE	3,004	2,559	-	-	282	-	-	-	163
DEPARTMENT OF DEFENSE	11,227	5,180	433	-	558	-	5,056	-	-
DEPARTMENT OF ENERGY	73,327	151	27,551	45,568	57	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	10,658	-	57	-	9,320	-	191	-	1,090
DEPARTMENT OF THE INTERIOR	1,925	1,347	15	-	331	-	-	-	232
DEPARTMENT OF TRANSPORTATION	212	-	41	-	146	-	-	-	25
ENVIRONMENTAL PROTECTION AGENCY	1,315	-	574	-	388	-	200	-	153
NATIONAL AERONAUTICS AND SPACE ADMIN	400	31	66	-	303	-	-	-	-
NATIONAL SCIENCE FOUNDATION	3,536	-	-	-	3,519	-	-	-	17
VIRGINIA									
TOTAL	940,261	464,892	379,334	-	56,246	25	22,665	11,341	5,758
DEPARTMENT OF AGRICULTURE	5,601	540	7	-	4,984	-	3	-	67
DEPARTMENT OF COMMERCE	6,514	1,518	3,995	-	485	-	160	-	356
DEPARTMENT OF DEFENSE	519,071	247,822	255,452	-	2,535	-	1,921	11,341	-
DEPARTMENT OF ENERGY	35,279	2,240	25,668	-	3,490	-	3,881	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	53,168	324	20,713	-	28,630	-	3,000	-	501
DEPARTMENT OF THE INTERIOR	32,735	28,192	2,389	-	777	-	42	-	1,335
DEPARTMENT OF TRANSPORTATION	31,160	3,069	18,730	-	74	-	9,262	-	25
ENVIRONMENTAL PROTECTION AGENCY	17,186	6,093	4,450	-	1,091	-	2,318	-	3,234
NATIONAL AERONAUTICS AND SPACE ADMIN	224,912	169,453	47,854	-	5,840	-	1,630	-	135
NATIONAL SCIENCE FOUNDATION	14,635	5,641	76	-	8,340	25	448	-	105
WEST VIRGINIA									
TOTAL	107,175	70,004	5,453	-	8,442	17,929	2,543	75	2,729
DEPARTMENT OF AGRICULTURE	6,017	3,901	15	-	2,101	-	-	-	-
DEPARTMENT OF COMMERCE	101	-	-	-	-	-	-	-	101
DEPARTMENT OF DEFENSE	3,779	-	3,752	-	1	25	-	-	-
DEPARTMENT OF ENERGY	58,732	55,487	1,162	-	2,008	-	-	75	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	10,767	7,686	-	-	2,161	-	730	-	190
DEPARTMENT OF THE INTERIOR	5,222	2,846	316	-	815	-	-	-	1,245
DEPARTMENT OF TRANSPORTATION	2,325	-	-	-	434	-	1,365	-	526
ENVIRONMENTAL PROTECTION AGENCY	1,644	-	190	-	339	-	448	-	667
NATIONAL AERONAUTICS AND SPACE ADMIN	102	84	18	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	18,487	-	-	-	583	17,904	-	-	-

CONTINUED ON NEXT PAGE

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
EAST SOUTH CENTRAL									
TOTAL	1,347,328	492,329	491,207	201,404	133,686	4,872	19,763	10	4,057
DEPARTMENT OF AGRICULTURE	39,778	19,123	174	-	20,471	-	-	-	10
DEPARTMENT OF COMMERCE	6,470	3,130	1,649	-	1,092	-	206	-	393
DEPARTMENT OF DEFENSE	420,202	235,999	179,414	90	3,210	-	1,469	10	10
DEPARTMENT OF ENERGY	496,923	43,681	232,341	199,317	17,287	4,297	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	96,670	3,989	192	-	77,422	492	14,438	-	137
DEPARTMENT OF THE INTERIOR	12,049	8,084	1,037	-	1,826	-	-	-	1,102
DEPARTMENT OF TRANSPORTATION	5,857	1,782	2,099	-	372	-	-	-	1,614
ENVIRONMENTAL PROTECTION AGENCY	14,773	7,481	2,689	-	1,279	-	2,533	-	791
NATIONAL AERONAUTICS AND SPACE ADMIN	245,627	169,060	71,622	-	4,621	-	324	-	-
NATIONAL SCIENCE FOUNDATION	8,979	-	-	1,997	6,106	83	793	-	-
ALABAMA									
TOTAL	559,596	369,618	137,901	-	40,746	-	10,663	-	668
DEPARTMENT OF AGRICULTURE	7,707	2,197	21	-	5,489	-	-	-	-
DEPARTMENT OF COMMERCE	509	-	127	-	175	-	55	-	152
DEPARTMENT OF DEFENSE	241,180	160,437	77,831	-	1,490	-	1,422	-	-
DEPARTMENT OF ENERGY	44,089	42,674	116	-	1,299	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	35,331	26	190	-	28,071	-	7,040	-	4
DEPARTMENT OF THE INTERIOR	4,639	3,187	979	-	374	-	-	-	99
DEPARTMENT OF TRANSPORTATION	2,876	1,016	1,802	-	-	-	-	-	58
ENVIRONMENTAL PROTECTION AGENCY	2,783	254	52	-	397	-	1,725	-	355
NATIONAL AERONAUTICS AND SPACE ADMIN	219,017	159,827	56,783	-	2,083	-	324	-	-
NATIONAL SCIENCE FOUNDATION	1,465	-	-	-	1,368	-	97	-	-
KENTUCKY									
TOTAL	43,029	16,123	4,943	-	18,991	-	2,166	-	806
DEPARTMENT OF AGRICULTURE	6,627	1,830	9	-	4,778	-	-	-	10
DEPARTMENT OF COMMERCE	203	15	16	-	110	-	-	-	62
DEPARTMENT OF DEFENSE	10,874	9,395	1,151	-	296	-	32	-	-
DEPARTMENT OF ENERGY	1,877	-	1,645	-	232	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	15,317	3,933	2	-	10,425	-	954	-	3
DEPARTMENT OF THE INTERIOR	2,055	933	25	-	664	-	-	-	433
DEPARTMENT OF TRANSPORTATION	429	-	287	-	106	-	-	-	36
ENVIRONMENTAL PROTECTION AGENCY	2,875	-	1,755	-	374	-	484	-	262
NATIONAL AERONAUTICS AND SPACE ADMIN	690	17	53	-	620	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,082	-	-	-	1,386	-	696	-	-
MISSISSIPPI									
TOTAL	100,650	56,304	21,573	-	20,761	-	966	10	1,036
DEPARTMENT OF AGRICULTURE	19,114	13,780	131	-	5,203	-	-	-	-
DEPARTMENT OF COMMERCE	5,401	3,028	1,416	-	654	-	149	-	154
DEPARTMENT OF DEFENSE	40,118	32,026	7,813	-	258	-	1	10	10
DEPARTMENT OF ENERGY	7,611	-	154	-	7,457	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	5,908	-	-	-	5,230	-	678	-	-
DEPARTMENT OF THE INTERIOR	3,576	3,007	-	-	320	-	-	-	249
DEPARTMENT OF TRANSPORTATION	1,389	766	-	-	-	-	-	-	623
ENVIRONMENTAL PROTECTION AGENCY	352	-	-	-	214	-	138	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	16,683	3,697	12,059	-	927	-	-	-	-
NATIONAL SCIENCE FOUNDATION	498	-	-	-	498	-	-	-	-
TENNESSEE									
TOTAL	644,053	50,284	326,790	201,404	53,188	4,872	5,960	-	1,547
DEPARTMENT OF AGRICULTURE	6,330	1,316	13	-	5,001	-	-	-	-
DEPARTMENT OF COMMERCE	357	87	90	-	153	-	2	-	25
DEPARTMENT OF DEFENSE	128,030	34,141	92,619	90	1,166	-	14	-	-
DEPARTMENT OF ENERGY	443,346	1,007	230,426	199,317	8,299	4,297	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	40,114	30	-	-	33,696	492	5,766	-	130
DEPARTMENT OF THE INTERIOR	1,779	957	33	-	468	-	-	-	321
DEPARTMENT OF TRANSPORTATION	1,163	-	-	-	266	-	-	-	897
ENVIRONMENTAL PROTECTION AGENCY	8,763	7,227	882	-	294	-	186	-	174
NATIONAL AERONAUTICS AND SPACE ADMIN	9,237	5,519	2,727	-	991	-	-	-	-
NATIONAL SCIENCE FOUNDATION	4,934	-	-	1,997	2,854	83	-	-	-
WEST SOUTH CENTRAL									
TOTAL	1,454,179	335,941	842,447	-	234,678	-	26,107	-	15,006
DEPARTMENT OF AGRICULTURE	69,512	46,822	507	-	22,182	-	-	-	1
DEPARTMENT OF COMMERCE	11,411	4,376	2,899	-	3,111	-	228	-	797
DEPARTMENT OF DEFENSE	410,164	40,950	354,370	-	11,730	-	3,074	-	40
DEPARTMENT OF ENERGY	80,027	23,324	41,202	-	13,723	-	900	-	878
DEPARTMENT OF HEALTH & HUMAN SRVCS	168,701	16,527	1,096	-	137,340	-	12,270	-	1,468
DEPARTMENT OF THE INTERIOR	15,163	6,304	1,151	-	2,539	-	1,392	-	3,777
DEPARTMENT OF TRANSPORTATION	38,120	2,798	24,248	-	5,102	-	1,100	-	4,872
ENVIRONMENTAL PROTECTION AGENCY	25,891	6,700	7,059	-	3,956	-	5,490	-	2,686
NATIONAL AERONAUTICS AND SPACE ADMIN	608,322	188,132	409,522	-	8,820	-	1,576	-	272
NATIONAL SCIENCE FOUNDATION	26,868	8	393	-	26,175	-	77	-	215

CONTINUED ON NEXT PAGE

TABLE C-131. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
ARKANSAS									
TOTAL	37,266	23,168	2,526	-	9,458	-	680	-	1,434
DEPARTMENT OF AGRICULTURE	5,037	1,025	1	-	4,011	-	-	-	-
DEPARTMENT OF COMMERCE	373	-	189	-	112	-	-	-	72
DEPARTMENT OF DEFENSE	2,416	1,199	131	-	1,046	-	-	-	40
DEPARTMENT OF ENERGY	3,710	-	2,156	-	896	-	-	-	658
DEPARTMENT OF HEALTH & HUMAN SRVCS	17,857	15,509	-	-	1,950	-	408	-	-
DEPARTMENT OF THE INTERIOR	2,038	1,774	49	-	185	-	-	-	-
DEPARTMENT OF TRANSPORTATION	487	-	-	-	-	-	-	-	487
ENVIRONMENTAL PROTECTION AGENCY	4,294	3,661	-	-	289	-	272	-	72
NATIONAL AERONAUTICS AND SPACE ADMIN	76	-	-	-	76	-	-	-	-
NATIONAL SCIENCE FOUNDATION	998	-	-	-	893	-	-	-	105
LOUISIANA									
TOTAL	209,054	30,260	146,157	-	26,745	-	2,781	-	3,141
DEPARTMENT OF AGRICULTURE	29,043	23,685	238	-	5,120	-	-	-	-
DEPARTMENT OF COMMERCE	1,536	-	213	-	943	-	80	-	300
DEPARTMENT OF DEFENSE	7,961	1,336	5,522	-	1,083	-	20	-	-
DEPARTMENT OF ENERGY	8,621	-	7,950	-	671	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	19,557	819	-	-	15,719	-	2,315	-	704
DEPARTMENT OF THE INTERIOR	1,816	1,056	252	-	271	-	-	-	237
DEPARTMENT OF TRANSPORTATION	967	557	196	-	-	-	-	-	214
ENVIRONMENTAL PROTECTION AGENCY	3,085	-	299	-	734	-	366	-	1,686
NATIONAL AERONAUTICS AND SPACE ADMIN	134,459	2,807	131,464	-	188	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,039	-	23	-	2,016	-	-	-	-
OKLAHOMA									
TOTAL	76,113	35,953	12,595	-	15,845	-	3,865	-	1,855
DEPARTMENT OF AGRICULTURE	8,142	4,082	49	-	4,011	-	-	-	-
DEPARTMENT OF COMMERCE	3,510	2,568	158	-	511	-	148	-	125
DEPARTMENT OF DEFENSE	5,297	1,649	3,120	-	523	-	5	-	-
DEPARTMENT OF ENERGY	25,631	22,929	2,340	-	362	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	9,207	38	-	-	5,559	-	3,187	-	423
DEPARTMENT OF THE INTERIOR	1,955	565	267	-	567	-	-	-	556
DEPARTMENT OF TRANSPORTATION	8,298	1,650	6,116	-	168	-	-	-	364
ENVIRONMENTAL PROTECTION AGENCY	3,862	2,128	-	-	967	-	490	-	277
NATIONAL AERONAUTICS AND SPACE ADMIN	1,888	344	545	-	999	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,323	-	-	-	2,178	-	35	-	110
TEXAS									
TOTAL	1,137,716	246,560	681,169	-	182,630	-	18,781	-	8,576
DEPARTMENT OF AGRICULTURE	27,290	18,030	219	-	9,040	-	-	-	1
DEPARTMENT OF COMMERCE	5,992	1,808	2,339	-	1,545	-	-	-	300
DEPARTMENT OF DEFENSE	394,490	36,766	345,597	-	9,078	-	3,049	-	-
DEPARTMENT OF ENERGY	42,065	395	28,756	-	11,794	-	900	-	220
DEPARTMENT OF HEALTH & HUMAN SRVCS	122,070	161	1,096	-	114,112	-	6,360	-	341
DEPARTMENT OF THE INTERIOR	9,384	2,909	583	-	1,516	-	1,392	-	2,984
DEPARTMENT OF TRANSPORTATION	28,368	591	17,936	-	4,934	-	1,100	-	3,807
ENVIRONMENTAL PROTECTION AGENCY	14,650	911	6,760	-	1,966	-	4,362	-	651
NATIONAL AERONAUTICS AND SPACE ADMIN	471,899	184,981	277,513	-	7,557	-	1,576	-	272
NATIONAL SCIENCE FOUNDATION	21,508	8	370	-	21,088	-	42	-	-
MOUNTAIN									
TOTAL	2,262,677	478,667	690,834	384,559	212,954	350,473	36,877	73,977	34,336
DEPARTMENT OF AGRICULTURE	55,140	38,549	370	-	15,973	-	19	-	229
DEPARTMENT OF COMMERCE	31,196	25,953	1,340	-	2,448	270	604	-	581
DEPARTMENT OF DEFENSE	580,121	283,886	266,677	2,900	19,031	3,764	3,781	12	70
DEPARTMENT OF ENERGY	1,080,314	33,566	248,983	381,659	21,293	303,723	11,127	73,965	5,998
DEPARTMENT OF HEALTH & HUMAN SRVCS	110,886	7,064	287	-	81,159	-	14,552	-	7,824
DEPARTMENT OF THE INTERIOR	92,583	63,998	6,653	-	10,311	-	298	-	11,323
DEPARTMENT OF TRANSPORTATION	27,446	4,597	15,107	-	340	-	29	-	7,373
ENVIRONMENTAL PROTECTION AGENCY	17,485	5,713	2,298	-	6,986	-	1,914	-	574
NATIONAL AERONAUTICS AND SPACE ADMIN	177,297	14,131	148,328	-	12,643	35	1,871	-	289
NATIONAL SCIENCE FOUNDATION	90,209	1,210	791	-	42,770	42,681	2,682	-	75
ARIZONA									
TOTAL	201,434	61,608	78,153	-	43,502	14,051	1,858	-	2,262
DEPARTMENT OF AGRICULTURE	10,239	7,900	72	-	2,252	-	-	-	15
DEPARTMENT OF COMMERCE	741	-	-	-	524	-	155	-	62
DEPARTMENT OF DEFENSE	97,790	46,999	49,271	-	1,520	-	-	-	-
DEPARTMENT OF ENERGY	12,328	-	10,973	-	1,053	-	-	-	302
DEPARTMENT OF HEALTH & HUMAN SRVCS	17,965	2,800	49	-	13,420	-	790	-	906
DEPARTMENT OF THE INTERIOR	6,175	3,065	723	-	1,482	-	-	-	905
DEPARTMENT OF TRANSPORTATION	3,675	-	3,603	-	-	-	-	-	72
ENVIRONMENTAL PROTECTION AGENCY	1,014	-	-	-	886	-	128	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	18,951	844	13,419	-	4,067	-	621	-	-
NATIONAL SCIENCE FOUNDATION	32,556	-	43	-	18,298	14,051	164	-	-

CONTINUED ON NEXT PAGE

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
COLORADO									
TOTAL	442,218	81,438	173,586	107	65,067	27,435	11,470	73,965	9,153
DEPARTMENT OF AGRICULTURE	12,900	9,615	67	-	3,154	-	19	-	45
DEPARTMENT OF COMMERCE	29,650	25,874	1,239	-	1,782	270	433	-	32
DEPARTMENT OF DEFENSE	86,789	7,606	75,970	-	3,154	-	59	-	-
DEPARTMENT OF ENERGY	111,587	578	33,030	107	2,966	-	583	73,965	358
DEPARTMENT OF HEALTH & HUMAN SRVCS	42,291	107	115	-	29,532	-	6,648	-	5,879
DEPARTMENT OF THE INTERIOR	37,846	28,014	3,331	-	4,002	-	298	-	2,201
DEPARTMENT OF TRANSPORTATION	16,016	4,301	11,441	-	191	-	29	-	54
ENVIRONMENTAL PROTECTION AGENCY	6,516	158	1,731	-	4,097	-	363	-	167
NATIONAL AERONAUTICS AND SPACE ADMIN	56,306	3,977	46,487	-	4,316	35	1,202	-	289
NATIONAL SCIENCE FOUNDATION	42,327	1,208	205	-	11,873	27,130	1,836	-	75
IDAHO									
TOTAL	147,077	9,038	8,701	93,027	4,520	23,070	898	-	7,823
DEPARTMENT OF AGRICULTURE	7,853	5,044	39	-	2,770	-	-	-	-
DEPARTMENT OF COMMERCE	187	-	-	-	37	-	-	-	150
DEPARTMENT OF DEFENSE	423	342	-	-	81	-	-	-	-
DEPARTMENT OF ENERGY	128,630	427	8,574	93,027	41	23,070	-	-	3,491
DEPARTMENT OF HEALTH & HUMAN SRVCS	1,217	-	62	-	297	-	713	-	145
DEPARTMENT OF THE INTERIOR	5,422	3,225	10	-	768	-	-	-	1,419
DEPARTMENT OF TRANSPORTATION	2,558	-	-	-	-	-	-	-	2,558
ENVIRONMENTAL PROTECTION AGENCY	391	-	-	-	146	-	185	-	60
NATIONAL AERONAUTICS AND SPACE ADMIN	26	-	16	-	10	-	-	-	-
NATIONAL SCIENCE FOUNDATION	370	-	-	-	370	-	-	-	-
MONTANA									
TOTAL	41,648	16,922	11,736	-	6,330	-	1,543	-	5,117
DEPARTMENT OF AGRICULTURE	11,279	8,715	139	-	2,279	-	-	-	146
DEPARTMENT OF COMMERCE	77	-	-	-	-	-	-	-	77
DEPARTMENT OF DEFENSE	256	15	134	-	47	-	-	-	60
DEPARTMENT OF ENERGY	11,054	-	10,481	-	364	-	-	-	209
DEPARTMENT OF HEALTH & HUMAN SRVCS	6,343	4,156	61	-	619	-	1,378	-	129
DEPARTMENT OF THE INTERIOR	9,131	4,036	921	-	648	-	-	-	3,526
DEPARTMENT OF TRANSPORTATION	708	-	-	-	-	-	-	-	708
ENVIRONMENTAL PROTECTION AGENCY	1,184	-	-	-	757	-	165	-	262
NATIONAL AERONAUTICS AND SPACE ADMIN	3	-	-	-	3	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,613	-	-	-	1,613	-	-	-	-
NEVADA									
TOTAL	222,098	33,988	173,779	2,720	5,474	-	4,787	-	1,350
DEPARTMENT OF AGRICULTURE	1,611	683	7	-	921	-	-	-	-
DEPARTMENT OF COMMERCE	71	-	30	-	-	-	16	-	25
DEPARTMENT OF DEFENSE	14,614	11,751	2,621	-	242	-	-	-	-
DEPARTMENT OF ENERGY	186,213	8,028	170,208	2,720	695	-	4,562	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	901	-	-	-	654	-	16	-	231
DEPARTMENT OF THE INTERIOR	9,662	7,755	202	-	723	-	-	-	982
DEPARTMENT OF TRANSPORTATION	27	-	-	-	-	-	-	-	27
ENVIRONMENTAL PROTECTION AGENCY	6,127	5,555	80	-	214	-	193	-	85
NATIONAL AERONAUTICS AND SPACE ADMIN	1,204	216	631	-	357	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,668	-	-	-	1,668	-	-	-	-
NEW MEXICO									
TOTAL	955,542	211,860	121,258	288,705	32,399	285,917	12,452	12	2,999
DEPARTMENT OF AGRICULTURE	2,572	1,125	12	-	1,412	-	-	-	23
DEPARTMENT OF COMMERCE	321	70	51	-	105	-	-	-	95
DEPARTMENT OF DEFENSE	312,393	198,674	92,878	2,900	10,507	3,764	3,648	12	10
DEPARTMENT OF ENERGY	587,680	-	12,723	285,805	2,017	280,653	5,982	-	500
DEPARTMENT OF HEALTH & HUMAN SRVCS	15,492	1	-	-	12,600	-	2,562	-	329
DEPARTMENT OF THE INTERIOR	5,309	3,279	588	-	761	-	-	-	681
DEPARTMENT OF TRANSPORTATION	1,720	296	63	-	-	-	-	-	1,361
ENVIRONMENTAL PROTECTION AGENCY	442	-	-	-	374	-	68	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	25,497	8,353	14,943	-	2,153	-	48	-	-
NATIONAL SCIENCE FOUNDATION	4,116	2	-	-	2,470	1,500	144	-	-
UTAH									
TOTAL	211,637	34,439	123,200	-	45,931	-	3,443	-	4,624
DEPARTMENT OF AGRICULTURE	6,272	4,405	24	-	1,843	-	-	-	-
DEPARTMENT OF COMMERCE	[illegible]24	9	50	-	-	-	-	-	65
DEPARTMENT OF DEFENSE	[illegible],475	18,499	45,753	-	3,149	-	74	-	-
DEPARTMENT OF ENERGY	12,907	-	2,633	-	9,366	-	-	-	908
DEPARTMENT OF HEALTH & HUMAN SRVCS	26,215	-	-	-	23,565	-	2,445	-	205
DEPARTMENT OF THE INTERIOR	14,435	10,785	878	-	1,578	-	-	-	1,194
DEPARTMENT OF TRANSPORTATION	2,321	-	-	-	149	-	-	-	2,172
ENVIRONMENTAL PROTECTION AGENCY	1,052	-	487	-	179	-	386	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	74,977	741	72,832	-	1,404	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,779	-	543	-	4,698	-	538	-	-

CONTINUED ON NEXT PAGE

TABLE C-101. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUSTRIAL FIRMS	UNIVERSITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITUTIONS	FFRDCS ADMIN BY NON-PROFIT INSTITUTIONS	STATE AND LOCAL GOVTS
WYOMING									
TOTAL	41,023	29,434	421	-	9,731	-	426	-	1,011
DEPARTMENT OF AGRICULTURE	2,414	1,062	10	-	1,342	-	-	-	-
DEPARTMENT OF COMMERCE	25	-	-	-	-	-	-	-	25
DEPARTMENT OF DEFENSE	381	-	50	-	331	-	-	-	-
DEPARTMENT OF ENERGY	29,835	24,533	361	-	4,791	-	-	-	150
DEPARTMENT OF HEALTH & HUMAN SRVCS	472	-	-	-	472	-	-	-	-
DEPARTMENT OF THE INTERIOR	4,603	3,839	-	-	349	-	-	-	415
DEPARTMENT OF TRANSPORTATION	421	-	-	-	-	-	-	-	421
ENVIRONMENTAL PROTECTION AGENCY	759	-	-	-	333	-	426	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	333	-	-	-	333	-	-	-	-
NATIONAL SCIENCE FOUNDATION	1,780	-	-	-	1,780	-	-	-	-
PACIFIC									
TOTAL	7,855,605	1,057,942	4,935,310	188,507	692,655	581,804	154,836	198,856	45,695
DEPARTMENT OF AGRICULTURE	77,670	58,122	710	-	18,603	-	98	-	137
DEPARTMENT OF COMMERCE	49,543	29,608	4,548	-	9,356	108	517	-	5,406
DEPARTMENT OF DEFENSE	4,226,978	782,499	3,208,562	-	63,856	14,598	24,460	132,997	6
DEPARTMENT OF ENERGY	990,234	9,941	237,886	188,507	40,707	443,336	3,313	62,628	3,916
DEPARTMENT OF HEALTH & HUMAN SRVCS	514,034	2,748	14,716	-	358,307	7,123	111,282	1,844	18,014
DEPARTMENT OF THE INTERIOR	83,366	52,834	13,577	-	8,400	201	120	281	7,953
DEPARTMENT OF TRANSPORTATION	38,989	1,870	29,291	-	1,443	340	-	-	6,045
ENVIRONMENTAL PROTECTION AGENCY	57,383	9,347	32,504	-	6,703	-	4,323	550	3,956
NATIONAL AERONAUTICS AND SPACE ADMIN	1,656,181	110,345	1,387,870	-	38,192	115,328	3,983	380	83
NATIONAL SCIENCE FOUNDATION	161,227	628	5,646	-	147,088	770	6,740	176	179
ALASKA									
TOTAL	45,920	23,089	1,692	-	14,176	-	500	-	6,463
DEPARTMENT OF AGRICULTURE	4,781	3,714	56	-	1,011	-	-	-	-
DEPARTMENT OF COMMERCE	6,178	3,487	17	-	702	-	108	-	1,864
DEPARTMENT OF DEFENSE	14,619	5,149	1,239	-	8,035	-	196	-	-
DEPARTMENT OF ENERGY	431	-	-	-	401	-	-	-	30
DEPARTMENT OF HEALTH & HUMAN SRVCS	360	-	-	-	175	-	96	-	89
DEPARTMENT OF THE INTERIOR	14,467	10,222	-	-	1,257	-	-	-	2,988
DEPARTMENT OF TRANSPORTATION	1,034	-	-	-	-	-	-	-	1,034
ENVIRONMENTAL PROTECTION AGENCY	664	-	-	-	106	-	100	-	458
NATIONAL AERONAUTICS AND SPACE ADMIN	1,283	517	380	-	386	-	-	-	-
NATIONAL SCIENCE FOUNDATION	2,103	-	-	-	2,103	-	-	-	-
CALIFORNIA									
TOTAL	6,803,995	946,373	4,400,423	72,786	518,088	581,804	122,379	136,795	25,347
DEPARTMENT OF AGRICULTURE	42,884	33,439	391	-	8,989	-	11	-	54
DEPARTMENT OF COMMERCE	13,053	6,225	2,900	-	2,946	108	93	-	781
DEPARTMENT OF DEFENSE	3,738,060	762,060	2,758,311	-	46,051	14,598	24,075	132,959	6
DEPARTMENT OF ENERGY	746,118	6,485	192,301	72,786	25,530	443,336	2,428	1,399	1,853
DEPARTMENT OF HEALTH & HUMAN SRVCS	399,644	1,734	14,378	-	276,839	7,123	83,122	1,485	14,963
DEPARTMENT OF THE INTERIOR	44,146	23,593	11,556	-	5,193	201	120	64	3,419
DEPARTMENT OF TRANSPORTATION	26,925	1,870	22,247	-	760	340	-	-	1,708
ENVIRONMENTAL PROTECTION AGENCY	41,668	774	32,220	-	3,147	-	2,834	350	2,343
NATIONAL AERONAUTICS AND SPACE ADMIN	1,622,950	109,622	1,360,877	-	33,114	115,328	3,587	362	60
NATIONAL SCIENCE FOUNDATION	128,547	571	5,242	-	115,519	770	6,109	176	160
HAWAII									
TOTAL	40,819	7,582	5,799	25	24,630	-	2,300	-	483
DEPARTMENT OF AGRICULTURE	3,471	2,324	17	-	1,073	-	57	-	-
DEPARTMENT OF COMMERCE	3,323	1,787	16	-	1,260	-	107	-	153
DEPARTMENT OF DEFENSE	10,219	1,545	5,586	-	3,034	-	54	-	-
DEPARTMENT OF ENERGY	4,812	-	-	25	4,630	-	-	-	157
DEPARTMENT OF HEALTH & HUMAN SRVCS	8,469	116	-	-	6,354	-	1,857	-	142
DEPARTMENT OF THE INTERIOR	2,182	1,739	-	-	443	-	-	-	-
DEPARTMENT OF TRANSPORTATION	158	-	127	-	-	-	-	-	31
ENVIRONMENTAL PROTECTION AGENCY	271	-	-	-	206	-	65	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	2,725	71	53	-	2,601	-	-	-	-
NATIONAL SCIENCE FOUNDATION	5,189	-	-	-	5,029	-	160	-	-
OREGON									
TOTAL	100,104	33,179	7,276	-	40,892	-	10,575	-	8,182
DEPARTMENT OF AGRICULTURE	14,910	11,478	117	-	3,315	-	-	-	-
DEPARTMENT OF COMMERCE	4,829	901	254	-	1,753	-	-	-	1,921
DEPARTMENT OF DEFENSE	3,721	1,123	237	-	2,243	-	118	-	-
DEPARTMENT OF ENERGY	10,729	3,028	4,301	-	1,581	-	191	-	1,628
DEPARTMENT OF HEALTH & HUMAN SRVCS	28,132	-	-	-	18,578	-	9,439	-	115
DEPARTMENT OF THE INTERIOR	10,274	8,435	368	-	681	-	-	-	790
DEPARTMENT OF TRANSPORTATION	3,511	-	351	-	122	-	-	-	3,038
ENVIRONMENTAL PROTECTION AGENCY	10,645	8,213	-	-	1,016	-	726	-	690
NATIONAL AERONAUTICS AND SPACE ADMIN	2,607	1	1,648	-	958	-	-	-	-
NATIONAL SCIENCE FOUNDATION	10,746	-	-	-	10,645	-	101	-	-

CONTINUED ON NEXT PAGE

TABLE C-131. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION, STATE, AGENCY, AND PERFORMER: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

- CONTINUED

GEOGRAPHIC DIVISION, STATE, AND AGENCY	TOTAL	FEDERAL INTRAMURAL 1/	EXTRAMURAL						
			INDUSTRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NON-PROFIT INSTITU-TIONS	FFRDCS ADMIN BY NON-PROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
WASHINGTON									
TOTAL	864,767	47,719	520,120	115,696	94,869	-	19,082	62,061	5,223
DEPARTMENT OF AGRICULTURE	11,624	7,167	129	-	4,215	-	30	-	83
DEPARTMENT OF COMMERCE	22,169	17,208	1,361	-	2,695	-	209	-	697
DEPARTMENT OF DEFENSE	460,359	12,622	443,189	-	4,493	-	17	38	-
DEPARTMENT OF ENERGY	228,144	428	41,284	115,696	8,565	-	694	61,229	248
DEPARTMENT OF HEALTH & HUMAN SRVCS	77,429	898	338	-	56,361	-	16,769	359	2,705
DEPARTMENT OF THE INTERIOR	12,297	8,845	1,653	-	826	-	-	217	756
DEPARTMENT OF TRANSPORTATION	7,361	-	6,566	-	561	-	-	-	234
ENVIRONMENTAL PROTECTION AGENCY	4,135	360	284	-	2,228	-	598	200	465
NATIONAL AERONAUTICS AND SPACE ADMIN	26,616	134	24,912	-	1,133	-	396	18	23
NATIONAL SCIENCE FOUNDATION	14,642	57	404	-	13,792	-	370	-	19
OUTLYING AREAS									
TOTAL	39,388	7,430	15,465	-	10,053	4,525	1,131	-	734
DEPARTMENT OF AGRICULTURE	5,366	1,884	16	-	3,466	-	-	-	-
DEPARTMENT OF COMMERCE	1,249	90	238	-	303	-	2	-	616
DEPARTMENT OF DEFENSE	18,162	4,531	13,583	-	48	-	-	-	-
DEPARTMENT OF ENERGY	2,612	-	508	-	2,104	-	-	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	3,801	231	-	-	3,378	-	99	-	93
DEPARTMENT OF THE INTERIOR	1,027	577	-	-	378	-	-	-	72
DEPARTMENT OF TRANSPORTATION	3	-	-	-	-	-	-	-	3
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	2,284	117	1,120	-	17	-	1,030	-	-
NATIONAL SCIENCE FOUNDATION	4,884	-	-	-	359	4,525	-	-	-
OFFICES ABROAD									
TOTAL	57,652	41,635	6,197	-	33	-	9,787	-	-
DEPARTMENT OF AGRICULTURE	-	-	-	-	-	-	-	-	-
DEPARTMENT OF COMMERCE	-	-	-	-	-	-	-	-	-
DEPARTMENT OF DEFENSE	9,893	6,665	3,187	-	33	-	8	-	-
DEPARTMENT OF ENERGY	12,786	-	3,010	-	-	-	9,776	-	-
DEPARTMENT OF HEALTH & HUMAN SRVCS	3	-	-	-	-	-	3	-	-
DEPARTMENT OF THE INTERIOR	-	-	-	-	-	-	-	-	-
DEPARTMENT OF TRANSPORTATION	-	-	-	-	-	-	-	-	-
ENVIRONMENTAL PROTECTION AGENCY	-	-	-	-	-	-	-	-	-
NATIONAL AERONAUTICS AND SPACE ADMIN	34,970	34,970	-	-	-	-	-	-	-
NATIONAL SCIENCE FOUNDATION	-	-	-	-	-	-	-	-	-

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE. SEE TECHNICAL NOTES FOR FURTHER DESCRIPTION.

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 96 PERCENT OF TOTAL FEDERAL R&D OBLIGATIONS IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-102. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND PERFORMER SUPPORTED: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	FEDERAL INTRA-MURAL	EXTRAMURAL						
			INDUS-TRIAL FIRMS	FFRDCS ADMIN BY INDUS-TRIAL FIRMS	UNIVER-SITIES AND COLLEGES	FFRDCS ADMIN BY UNIVS AND COLLEGES	OTHER NONPROFIT INSTITU-TIONS	FFRDCS ADMIN BY NONPROFIT INSTITU-TIONS	STATE AND LOCAL GOVTS
TOTAL	1,393,836	485,248	213,716	218,158	38,942	412,349	7,828	17,294	301
NEW ENGLAND	59,215	21,428	20,781	103	6,300	20	34	9,549	-
CONNECTICUT	12,314	1,599	942	103	121	-	-	9,549	-
MAINE	106	106	-	-	-	-	-	-	-
MASSACHUSETTS	36,934	16,261	14,453	-	6,166	20	34	-	-
NEW HAMPSHIRE	5,386	-	5,386	-	-	-	-	-	-
RHODE ISLAND	3,472	3,459	-	-	13	-	-	-	-
VERMONT	3	3	-	-	-	-	-	-	-
MIDDLE ATLANTIC	180,736	20,603	14,735	33,387	8,540	100,253	3,176	-	42
NEW JERSEY	64,811	10,750	1,325	-	120	52,616	-	-	-
NEW YORK	69,422	2,664	1,957	5,963	7,983	47,637	3,176	-	42
PENNSYLVANIA	46,503	7,189	11,453	27,424	437	-	-	-	-
EAST NORTH CENTRAL	96,407	25,883	7,596	1,363	2,512	58,287	769	-	-
ILLINOIS	61,874	2,187	1,360	-	40	58,287	-	-	-
INDIANA	681	341	-	-	340	-	-	-	-
MICHIGAN	2,992	626	585	-	1,012	-	769	-	-
OHIO	27,999	20,988	5,651	1,360	-	-	-	-	-
WISCONSIN	2,861	1,741	-	-	1,120	-	-	-	-
WEST NORTH CENTRAL	12,387	10,261	342	-	54	1,725	-	-	5
IOWA	2,200	475	-	-	-	1,725	-	-	-
KANSAS	18	13	-	-	-	-	-	-	5
MINNESOTA	809	669	140	-	-	-	-	-	-
MISSOURI	5,635	5,611	24	-	-	-	-	-	-
NEBRASKA	779	725	-	-	54	-	-	-	-
NORTH DAKOTA	1,353	1,175	178	-	-	-	-	-	-
SOUTH DAKOTA	1,593	1,593	-	-	-	-	-	-	-
SOUTH ATLANTIC	201,956	165,005	14,723	2,293	9,895	10,000	40	-	-
DELAWARE	-	-	-	-	-	-	-	-	-
DISTRICT OF COLUMBIA	21,969	16,591	3,882	-	1,456	-	40	-	-
FLORIDA	45,988	42,778	100	-	3,110	-	-	-	-
GEORGIA	1,026	184	35	-	807	-	-	-	-
MARYLAND	64,345	59,480	1,910	-	2,955	-	-	-	-
NORTH CAROLINA	3,857	2,103	381	-	1,373	-	-	-	-
SOUTH CAROLINA	9,675	313	7,069	2,293	-	-	-	-	-
VIRGINIA	42,024	40,907	923	-	194	-	-	-	-
WEST VIRGINIA	13,072	2,649	423	-	-	10,000	-	-	-
EAST SOUTH CENTRAL	65,098	21,168	3,239	38,562	201	928	1,000	-	-
ALABAMA	2,584	2,584	-	-	-	-	-	-	-
KENTUCKY	2,932	2,932	-	-	-	-	-	-	-
MISSISSIPPI	3,791	3,791	-	-	-	-	-	-	-
TENNESSEE	55,791	11,861	3,239	38,562	201	928	1,000	-	-
WEST SOUTH CENTRAL	27,304	25,469	202	-	1,546	-	87	-	-
ARKANSAS	226	226	-	-	-	-	-	-	-
LOUISIANA	16,715	16,688	-	-	27	-	-	-	-
OKLAHOMA	617	600	17	-	-	-	-	-	-
TEXAS	9,746	7,955	185	-	1,519	-	87	-	-
MOUNTAIN	254,895	57,112	58,568	55,619	780	80,638	2,158	20	-
ARIZONA	35,293	35,134	150	-	9	-	-	-	-
COLORADO	9,710	5,816	1,284	-	-	2,590	-	20	-
IDAHO	41,847	251	1,335	20,227	200	19,834	-	-	-
MONTANA	1,189	91	1,098	-	-	-	-	-	-
NEVADA	24,166	3,117	20,996	-	53	-	-	-	-
NEW MEXICO	138,554	9,281	33,457	35,392	52	58,214	2,158	-	-
UTAH	2,888	2,347	233	-	308	-	-	-	-
WYOMING	1,248	1,075	15	-	158	-	-	-	-
PACIFIC	489,206	137,838	86,506	86,834	9,087	160,398	564	7,725	254
ALASKA	827	452	-	-	192	-	-	-	183
CALIFORNIA	400,195	135,606	72,515	22,342	8,770	160,398	564	-	-
HAWAII	517	474	-	-	28	-	-	-	15
OREGON	871	864	-	-	-	-	-	-	7
WASHINGTON	86,796	442	13,991	64,492	97	-	-	7,725	49
OUTLYING AREAS	514	387	-	-	27	100	-	-	-
OFFICES ABROAD	7,118	94	7,024	-	-	-	-	-	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 94 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-103. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION, STATE, AND AGENCY: FISCAL YEAR 1979

(THOUSANDS OF DOLLARS)

GEOGRAPHIC DIVISION AND STATE	TOTAL	DEPT OF AGRICULTURE	DEPT OF COMMERCE	DEPT OF DEFENSE	DEPT OF ENERGY	DEPT OF HEALTH & HUMAN SERVICES	DEPT OF THE INTERIOR	DEPT OF TRANSPORTATION	ENVIRONMENTAL PROTECTION AGENCY	NATIONAL AERONAUTICS & SPACE ADMIN	NATIONAL SCIENCE FOUNDATION
TOTAL	1,393,836	22,635	2,417	270,200	837,387	53,482	5,015	22,600	2,400	147,500	30,200
NEW ENGLAND	58,215	5	-	22,673	33,788	292	-	842	69	-	546
CONNECTICUT	12,314	-	-	1,699	9,773	-	-	842	-	-	-
MAINE	106	5	-	101	-	-	-	-	-	-	-
MASSACHUSETTS	36,934	-	-	17,617	18,616	155	-	-	-	-	546
NEW HAMPSHIRE	5,386	-	-	-	5,386	-	-	-	-	-	-
RHODE ISLAND	3,472	-	-	3,256	13	137	-	-	66	-	-
VERMONT	3	-	-	-	-	-	-	-	3	-	-
MIDDLE ATLANTIC	180,736	2,092	949	6,283	150,981	3,626	357	10,243	265	-	5,940
NEW JERSEY	64,811	-	-	599	53,768	-	-	10,059	265	-	120
NEW YORK	69,422	832	949	1,448	57,023	3,350	-	-	-	-	5,820
PENNSYLVANIA	46,503	1,260	-	4,236	40,190	276	357	184	-	-	-
EAST NORTH CENTRAL	96,407	2,439	-	13,235	68,602	1,164	1,856	200	79	7,312	1,520
ILLINOIS	61,874	1,446	-	54	60,064	307	-	-	3	-	-
INDIANA	681	117	-	224	340	-	-	-	-	-	-
MICHIGAN	2,992	289	-	10	1,187	818	253	-	35	-	400
OHIO	27,999	449	-	12,947	7,011	39	-	200	41	7,312	-
WISCONSIN	2,861	138	-	-	-	-	1,603	-	-	-	1,120
WEST NORTH CENTRAL	12,387	3,370	-	5,911	2,211	241	534	-	70	-	50
IOWA	2,200	475	-	-	1,725	-	-	-	-	-	-
KANSAS	18	13	-	-	5	-	-	-	-	-	-
MINNESOTA	809	40	-	458	100	141	-	-	70	-	-
MISSOURI	5,635	31	-	5,453	24	100	27	-	-	-	-
NEBRASKA	779	725	-	-	4	-	-	-	-	-	50
NORTH DAKOTA	1,353	963	-	-	353	-	37	-	-	-	-
SOUTH DAKOTA	1,593	1,123	-	-	-	-	470	-	-	-	-
SOUTH ATLANTIC	201,956	5,714	1,323	52,237	19,520	42,661	1,405	600	1,332	63,664	13,500
DELAWARE	-	-	-	-	-	-	-	-	-	-	-
DISTRICT OF COLUMBIA	21,969	193	-	11,697	7,313	376	-	-	-	2,350	40
FLORIDA	45,988	480	-	24,291	-	-	-	-	1,086	17,021	3,110
GEORGIA	1,026	80	-	-	842	100	-	-	4	-	-
MARYLAND	64,345	2,481	1,138	10,533	424	40,221	1	-	178	9,119	250
NORTH CAROLINA	3,857	1,512	-	-	-	1,964	381	-	-	-	-
SOUTH CAROLINA	9,675	268	-	-	9,402	-	-	-	5	-	-
VIRGINIA	42,024	-	185	5,716	190	-	-	600	59	35,174	100
WEST VIRGINIA	13,072	700	-	-	1,349	-	1,023	-	-	-	10,000
EAST SOUTH CENTRAL	65,098	3,394	-	14,007	42,746	1,018	8	-	45	3,730	150
ALABAMA	2,584	95	-	-	-	18	8	-	35	2,428	-
KENTUCKY	2,932	2,800	-	132	-	-	-	-	-	-	-
MISSISSIPPI	3,791	494	-	1,985	-	-	-	-	10	1,302	-
TENNESSEE	55,791	5	-	11,890	42,746	1,000	-	-	-	-	150
WEST SOUTH CENTRAL	27,304	2,310	-	5,494	1,785	16	226	-	48	17,375	50
ARKANSAS	226	-	-	-	-	-	226	-	-	-	-
LOUISIANA	16,715	937	-	-	27	-	-	-	-	15,751	-
OKLAHOMA	617	552	-	-	17	-	-	-	48	-	-
TEXAS	9,746	821	-	5,494	1,741	16	-	-	-	1,624	50
MOUNTAIN	254,895	1,324	145	53,790	189,268	551	626	3,800	33	2,450	2,908
ARIZONA	35,293	29	-	35,255	9	-	-	-	-	-	-
COLORADO	9,710	177	145	1,156	1,258	551	-	3,800	33	-	2,590
IDAHO	41,847	221	-	-	41,426	-	-	-	-	-	200
MONTANA	1,189	91	-	-	1,098	-	-	-	-	-	-
NEVADA	24,166	-	-	5,676	18,490	-	-	-	-	-	-
NEW MEXICO	138,554	248	-	11,470	126,001	-	345	-	-	490	-
UTAH	2,888	110	-	233	190	-	277	-	-	1,960	118
WYOMING	1,248	448	-	-	796	-	4	-	-	-	-
PACIFIC	489,206	1,753	-	96,476	321,435	3,760	3	6,915	459	52,969	5,436
ALASKA	827	-	-	609	218	-	-	-	-	-	-
CALIFORNIA	400,195	1,561	-	95,432	234,314	3,568	-	6,915	-	52,969	5,436
HAWAII	517	55	-	419	15	28	-	-	-	-	-
OREGON	871	19	-	-	393	-	-	-	459	-	-
WASHINGTON	86,796	118	-	16	86,495	164	3	-	-	-	-
OUTLYING AREAS	514	234	-	-	27	153	-	-	-	-	100
OFFICES ABROAD	7,118	-	-	94	7,024	-	-	-	-	-	-

NOTE: THE OBLIGATIONS OF THE TEN MAJOR R&D SUPPORTING AGENCIES INCLUDED IN THIS TABLE REPRESENT MORE THAN 94 PERCENT OF TOTAL FEDERAL R&D PLANT OBLIGATIONS IN FY 1979.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-104. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1979			ESTIMATES					
				1980			1981		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	7,496,588	4,237,653	56.5%	8,051,693	4,224,556	52.5%	8,965,193	4,504,305	50.2%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	455,467	299,839	65.8	507,412	301,786	59.5	531,090	326,777	61.5
AGRICULTURAL MARKETING SERVICE	867	725	83.6	1,246	1,006	80.7	1,235	1,011	81.9
ECON, STAT & COOPERATIVES SERVICE	34,544	20,473	59.3	41,100	21,118	51.4	43,600	21,308	48.9
FOREST SERVICE	96,535	88,324	91.5	101,637	94,203	92.7	111,466	101,622	91.2
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	-	-	-	-	-	-	1,935	1,515	78.3
OFFICE OF TRANSPORTATION	665	579	87.1	822	715	87.0	871	759	87.1
SCIENCE & EDUCATION ADMINISTRATION	322,856	189,738	58.8	362,607	184,744	50.9	371,973	200,562	53.9
AGRICULTURAL RESEARCH	316,946	183,828	58.0	355,728	177,865	50.0	364,702	193,291	53.0
COOPERATIVE RESEARCH	5,910	5,910	100.0	6,879	6,879	100.0	7,271	7,271	100.0
DEPARTMENT OF COMMERCE, TOTAL	196,853	119,270	60.6	218,592	131,955	60.4	239,175	143,453	60.0
BUREAU OF THE CENSUS	2,907	2,074	71.3	2,945	2,065	70.1	3,019	2,114	70.0
ECONOMIC DEVELOPMENT ADMIN	2,258	227	10.1	1,538	184	12.0	1,678	184	11.0
MARITIME ADMINISTRATION	1,975	1,681	85.1	1,803	1,560	86.5	1,803	1,619	89.8
NATIONAL BUREAU OF STANDARDS	62,073	44,749	72.1	69,680	50,161	72.0	73,280	52,785	72.0
NAT'L OCEANIC & ATMOSPHERIC ADMIN	123,043	67,125	54.6	132,763	70,722	53.3	148,270	78,513	53.0
NAT'L TELECOMM & INFO ADMIN	4,060	2,963	73.0	9,300	6,789	73.0	10,063	7,345	73.0
OFFICE OF THE SECRETARY	2	2	100.0	3	3	100.0	-	-	-
PATENT AND TRADEMARK OFFICE	535	449	83.9	560	471	84.1	1,062	893	84.1
DEPARTMENT OF DEFENSE, TOTAL	3,676,899	2,041,928	55.5	3,940,380	1,861,006	47.2	4,730,011	2,091,093	44.2
DEPARTMENT OF THE ARMY	1,090,618	560,614	51.4	1,174,696	576,927	49.1	1,360,439	633,303	46.6
DEPARTMENT OF THE NAVY	1,332,713	659,405	49.5	1,409,719	705,388	50.0	1,513,559	709,344	46.9
DEPARTMENT OF THE AIR FORCE	1,003,714	701,838	69.9	1,081,519	446,675	41.3	1,520,097	596,876	39.3
DEFENSE AGENCIES	225,799	119,271	52.8	248,808	131,116	52.7	300,328	150,520	50.1
DIRECTOR OF TEST & EVAL, DEFENSE	24,055	800	3.3	25,638	900	3.5	35,588	1,050	3.0
DEPARTMENT OF EDUCATION	19,484	7,711	39.6	20,403	15,103	74.0	20,530	15,366	74.8
DEPARTMENT OF ENERGY	361,892	167,260	46.2	407,853	165,199	40.5	403,899	162,262	40.2
DEPT OF HLTH & HUMAN SERVICES, TOTAL	728,882	382,934	52.5	775,901	436,637	56.3	799,647	447,837	56.0
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	56,770	26,684	47.0	63,887	39,564	61.9	67,802	29,297	43.2
CENTER FOR DISEASE CONTROL	55,964	47,569	85.0	68,015	57,813	85.0	69,234	58,849	85.0
FOOD & DRUG ADMINISTRATION	44,068	28,644	65.0	47,043	30,578	65.0	48,419	31,472	65.0
HEALTH CARE FINANCING ADMIN	3,682	460	12.5	5,740	718	12.5	6,424	803	12.5
HEALTH RESOURCES ADMINISTRATION	150	100	66.7	8	5	62.5	-	-	-
HEALTH SERVICES ADMINISTRATION	6,560	5,645	86.1	7,120	6,143	86.3	8,518	7,382	86.7
NATIONAL INSTITUTES OF HEALTH	527,891	251,002	47.5	545,521	279,649	51.3	561,373	296,477	52.8
OFFICE OF ASST'T SECY FOR HEALTH	10,404	9,081	87.3	10,871	6,740	62.0	10,781	7,215	66.9
OFF OF HUMAN DEVELOPMENT SVCS	4,777	2,660	55.7	5,355	3,191	59.6	5,049	2,722	53.9
OFFICE OF THE SECRETARY	3,276	502	15.3	3,202	502	15.7	2,402	502	20.9
SOCIAL SECURITY ADMINISTRATION	15,340	10,587	69.0	19,139	11,734	61.3	19,645	13,118	66.8
DEPT OF HOUSING & URBAN DEV	26,498	11,701	44.2	24,418	11,759	48.2	21,642	9,851	45.5
DEPARTMENT OF THE INTERIOR, TOTAL	249,948	162,658	65.1	252,857	164,866	65.2	252,885	148,333	58.7
BUREAU OF LAND MANAGEMENT	721	418	58.0	716	420	58.7	654	486	74.3
BUREAU OF MINES	56,971	46,200	81.1	55,737	44,700	80.2	52,776	43,000	81.5
GEOLOGICAL SURVEY	134,114	72,220	53.8	140,578	76,881	54.7	140,542	77,677	55.3
NATIONAL PARK SERVICE	5,898	3,643	61.8	5,934	3,836	64.6	7,633	4,689	61.4
OFFICE OF THE SECRETARY	848	656	77.4	940	651	69.3	1,003	782	78.0
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,434	200	13.9	250	200	80.0	375	200	53.3
OFFICE OF WATER RSCH & TECHNOLOGY	3,125	2,700	86.4	1,700	1,500	88.2	1,700	1,500	88.2
US FISH & WILDLIFE SERVICE	40,758	32,366	79.4	39,672	31,547	79.5	41,746	15,480	37.1
WATER & POWER RESOURCES SVC	6,079	4,255	70.0	7,330	5,131	70.0	6,456	4,519	70.0
DEPARTMENT OF JUSTICE, TOTAL	5,001	2,769	55.4	6,633	3,744	56.4	5,129	2,909	56.7
DRUG ENFORCEMENT ADMIN	600	600	100.0	1,500	1,500	100.0	900	900	100.0
FEDERAL BUREAU OF INVESTIGATION	225	225	100.0	215	215	100.0	275	275	100.0
FEDERAL PRISON SYSTEM	826	382	46.2	917	414	45.1	1,008	446	44.2
IMMIGRATION & NATURALIZATION SVC	78	37	47.4	400	150	37.5	200	150	75.0
OFFICE OF THE ATTORNEY GENERAL	21	7	33.3	25	20	80.0	21	11	52.4
OFF OF JUSTICE ASSIST, RSCH, & STAT	3,251	1,518	46.7	3,576	1,445	40.4	2,725	1,127	41.4
DEPARTMENT OF LABOR, TOTAL	20,111	7,969	39.6	22,656	10,239	45.2	23,250	11,272	48.5
BUREAU OF LABOR STATISTICS	855	770	90.1	860	774	90.0	1,052	947	90.0
EMPLOYMENT STANDARDS ADMIN	3,455	3,025	87.6	5,788	5,530	95.5	6,483	5,647	87.1
EMPLOYMENT & TRAINING ADMIN	12,305	2,159	17.5	12,758	1,897	14.9	12,168	2,370	19.5
LABOR-MANAGEMENT SERVICES ADMIN	1,725	556	32.2	1,639	579	35.3	1,682	582	34.6
OCCUPATIONAL SAFETY & HEALTH ADMIN	406	246	60.6	246	246	100.0	300	300	100.0
OFFICE OF THE SECRETARY	1,365	1,213	88.9	1,365	1,213	88.9	1,565	1,426	91.1
DEPARTMENT OF STATE, TOTAL	1,028	627	61.0	715	580	81.1	700	574	82.0
DEPARTMENTAL FUNDS	1,028	627	61.0	715	580	81.1	700	574	82.0

CONTINUED ON NEXT PAGE

TABLE C-104. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH AND DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1979			ESTIMATES					
				1980			1981		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	110,277	61,706	56.0%	108,678	61,550	56.6%	113,160	61,933	54.7%
COAST GUARD	6,000	3,000	50.0	6,500	3,300	50.8	7,000	2,500	35.7
FEDERAL AVIATION ADMINISTRATION	26,370	14,503	55.0	24,590	13,525	55.0	27,380	15,059	55.0
FEDERAL HIGHWAY ADMINISTRATION	12,064	10,187	84.4	12,800	10,520	82.2	12,800	10,520	82.2
FEDERAL RAILROAD ADMINISTRATION	16,024	8,805	54.9	16,321	9,792	60.0	16,468	8,991	54.6
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	12,051	4,860	40.3	12,646	4,700	37.2	13,125	4,810	36.6
OFFICE OF THE SECRETARY	4,312	2,003	46.5	4,121	2,243	54.4	3,987	2,213	55.5
RESEARCH & SPECIAL PROGRAMS ADMIN ..	8,800	5,900	67.0	8,400	5,700	67.9	9,000	6,000	66.7
URBAN MASS TRANSPORTATION ADMIN	24,656	12,448	50.5	23,300	11,770	50.5	23,400	11,840	50.6
DEPARTMENT OF THE TREASURY, TOTAL	3,007	2,243	74.6	5,865	3,969	67.7	7,292	4,833	66.3
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	122	122	100.0	162	162	100.0	135	135	100.0
BUREAU OF ENGRAVING AND PRINTING ...	1,102	721	65.4	2,546	1,775	69.7	3,970	2,770	69.8
CUSTOMS SERVICE	118	75	63.6	807	160	19.8	1,077	220	20.4
INTERNAL REVENUE SERVICE	1,665	1,325	79.6	2,350	1,872	79.7	2,110	1,708	80.9
OTHER AGENCIES									
ACTION	114	114	100.0	135	135	100.0	159	159	100.0
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,696	1,037	61.1	1,717	1,122	65.3	1,836	1,148	62.5
APPALACHIAN REGIONAL COMMISSION	60	43	71.7	60	43	71.7	60	43	71.7
CIVIL AERONAUTICS BOARD	631	559	88.6	653	555	85.0	572	503	87.9
COMMUNITY SERVICES ADMINISTRATION	1,520	1,520	100.0	1,520	1,520	100.0	1,520	1,520	100.0
CONSUMER PRODUCT SAFETY COMMISSION ...	2,415	362	15.0	1,850	307	16.6	1,416	197	13.9
ENVIRONMENTAL PROTECTION AGENCY	175,340	68,470	39.0	165,400	65,190	39.4	180,910	69,170	38.2
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	-	-	-	750	500	66.7	2,550	2,100	82.4
FEDERAL COMMUNICATIONS COMMISSION	1,397	1,397	100.0	1,978	1,978	100.0	2,219	2,219	100.0
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	4,925	2,364	48.0	3,861	1,852	48.0	4,101	1,967	48.0
FEDERAL HOME LOAN BANK BOARD	863	515	59.7	1,127	581	51.6	1,204	584	48.5
FEDERAL TRADE COMMISSION	1,521	1,408	92.6	1,343	1,235	92.0	1,514	1,396	92.2
GENERAL SERVICES ADMINISTRATION	16	13	81.3	6	5	83.3	3	3	100.0
INTERNAT'L COMMUNICATION AGENCY	87	52	59.8	128	79	61.7	140	95	67.9
INTERNAT'L DEV COOPERATION AGENCY	7,768	4,082	52.5	6,114	4,618	75.5	6,360	4,893	76.9
AGENCY FOR INTERNAT'L DEVELOPMENT ..	7,768	4,082	52.5	5,231	3,737	71.4	5,457	3,992	73.2
INST FOR SCIEN & TECH COOPERATION ..	-	-	-	883	881	99.8	903	901	99.8
INTERSTATE COMMERCE COMMISSION	150	150	100.0	161	161	100.0	240	240	100.0
LIBRARY OF CONGRESS	5,400	3,849	71.3	5,000	3,851	77.0	4,800	3,851	80.2
NATIONAL AERONAUTICS & SPACE ADMIN ...	1,177,134	704,873	59.9	1,273,454	763,063	59.9	1,290,939	764,647	59.2
NATIONAL SCIENCE FOUNDATION	63,206	39,445	62.4	67,336	44,911	66.7	68,951	45,679	66.2
NUCLEAR REGULATORY COMMISSION	9,679	6,086	62.9	13,275	6,865	51.7	14,660	7,562	51.6
OFFICE OF PERSONNEL MANAGEMENT	3,488	3,488	100.0	3,895	3,895	100.0	3,938	3,938	100.0
SMITHSONIAN INSTITUTION	33,685	24,253	72.0	37,276	27,323	73.3	41,286	28,281	68.5
TENNESSEE VALLEY AUTHORITY	22,432	16,017	71.4	41,049	31,293	76.2	52,027	40,540	77.9
US ARMS CONTROL & DISARMAMENT AGENCY .	468	332	70.9	580	350	60.3	510	252	49.4
US INTERNAT'L TRADE COMMISSION	3,417	2,734	80.0	2,679	2,143	80.0	4,059	3,247	80.0
VETERANS ADMINISTRATION	123,829	85,875	69.3	127,983	92,588	72.3	130,816	93,578	71.5

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-105. FEDERAL OBLIGATIONS FOR TOTAL BASIC RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1979			ESTIMATES					
				1980			1981		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	1,026,184	553,667	54.0%	1,096,400	602,247	54.9%	1,172,397	636,882	54.3%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	168,895	106,602	63.1	192,877	108,405	56.2	210,983	124,425	59.0
ECON, STAT & COOPERATIVES SERVICE	6,218	3,685	59.3	7,398	3,840	51.9	7,848	3,836	48.9
FOREST SERVICE	24,512	21,785	88.9	26,965	23,938	88.8	29,187	26,584	91.1
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	-	-	-	-	-	-	1,675	1,255	74.9
SCIENCE & EDUCATION ADMINISTRATION	138,165	81,132	58.7	158,514	80,627	50.9	172,273	92,751	53.8
AGRICULTURAL RESEARCH	135,793	78,760	58.0	155,775	77,888	50.0	169,195	89,673	53.0
COOPERATIVE RESEARCH	2,372	2,372	100.0	2,739	2,739	100.0	3,078	3,078	100.0
DEPARTMENT OF COMMERCE, TOTAL	19,465	11,347	58.3	23,372	13,950	59.7	26,252	16,136	61.5
BUREAU OF THE CENSUS	442	336	76.0	255	195	76.5	251	192	76.5
ECONOMIC DEVELOPMENT ADMIN	2	1	50.0	2	1	50.0	2	1	50.0
MARITIME ADMINISTRATION	3	2	66.7	3	2	66.7	3	1	33.3
NATIONAL BUREAU OF STANDARDS	8,540	6,093	71.3	12,245	8,718	71.2	14,545	10,377	71.3
NAT'L OCEANIC & ATMOSPHERIC ADMIN	10,478	4,915	46.9	10,866	5,033	46.3	11,451	5,565	48.6
OFFICE OF THE SECRETARY	-	-	-	1	1	100.0	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	110,052	58,924	53.5	124,769	64,017	51.3	142,940	67,952	47.5
DEPARTMENT OF THE ARMY	23,160	10,395	44.9	31,652	11,542	36.5	41,473	16,760	40.4
DEPARTMENT OF THE NAVY	55,567	26,376	47.5	59,065	28,216	47.8	63,105	28,374	45.0
DEPARTMENT OF THE AIR FORCE	22,840	16,244	71.1	24,716	17,853	72.2	21,200	15,264	72.0
DEFENSE AGENCIES	8,485	5,909	69.6	9,336	6,406	68.6	17,162	7,554	44.0
DEPARTMENT OF EDUCATION	3,808	2,475	65.0	4,142	2,968	71.7	4,985	3,589	72.0
DEPARTMENT OF ENERGY	4,809	2,666	55.4	3,980	3,144	79.0	6,605	3,494	52.9
DEPT OF HLTH & HUMAN SERVICES, TOTAL	322,890	145,445	45.0	337,191	170,027	50.4	350,869	169,680	48.4
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	36,109	15,963	44.2	39,462	26,399	66.9	41,945	15,355	36.6
HEALTH SERVICES ADMINISTRATION	1,988	1,724	86.7	2,000	1,734	86.7	2,200	1,908	86.7
NATIONAL INSTITUTES OF HEALTH	280,912	124,409	44.3	291,804	139,443	47.8	302,776	149,838	49.5
OFFICE OF ASST'T SECY FOR HEALTH	3,879	3,347	86.3	3,923	2,449	62.4	3,946	2,577	65.3
OFFICE OF THE SECRETARY	2	2	100.0	2	2	100.0	2	2	100.0
DEPARTMENT OF THE INTERIOR, TOTAL	62,863	39,267	62.5	65,056	41,256	63.4	67,529	43,475	64.4
BUREAU OF MINES	13,700	11,700	85.4	14,700	12,500	85.0	15,800	13,600	86.1
GEOLOGICAL SURVEY	45,015	24,241	53.9	45,466	24,865	54.7	46,776	25,853	55.3
OFFICE OF THE SECRETARY	848	656	77.4	940	651	69.3	1,003	782	78.0
OFFICE OF WATER RSCH & TECHNOLOGY	500	500	100.0	500	500	100.0	500	500	100.0
US FISH & WILDLIFE SERVICE	2,700	2,100	77.8	3,250	2,600	80.0	3,250	2,600	80.0
WATER & POWER RESOURCES SVC	100	70	70.0	200	140	70.0	200	140	70.0
DEPARTMENT OF JUSTICE, TOTAL	695	392	56.4	835	350	41.9	585	220	37.6
OFF OF JUSTICE ASSIST, RSCH, & STAT	695	392	56.4	835	350	41.9	585	220	37.6
DEPARTMENT OF LABOR, TOTAL	1,008	209	20.7	1,213	214	17.6	1,232	333	27.0
EMPLOYMENT & TRAINING ADMIN	508	109	21.5	713	114	16.0	732	233	31.8
LABOR-MANAGEMENT SERVICES ADMIN	500	100	20.0	500	100	20.0	500	100	20.0
DEPARTMENT OF STATE, TOTAL	2	1	50.0	-	-	-	-	-	-
DEPARTMENTAL FUNDS	2	1	50.0	-	-	-	-	-	-
DEPARTMENT OF THE TREASURY, TOTAL	95	75	78.9	980	780	79.6	900	700	77.8
INTERNAL REVENUE SERVICE	95	75	78.9	980	780	79.6	900	700	77.8
OTHER AGENCIES									
ENVIRONMENTAL PROTECTION AGENCY	4,370	2,960	67.7	6,020	3,870	64.3	8,060	5,500	68.2
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	-	-	-	-	-	-	1,200	1,000	83.3
FEDERAL EMERGENCY MANAGEMENT AGENCY	1,447	695	48.0	952	456	47.9	952	456	47.9
FEDERAL TRADE COMMISSION	445	410	92.1	345	302	87.5	293	267	91.1
GENERAL SERVICES ADMINISTRATION	14	11	78.6	-	-	-	-	-	-
LIBRARY OF CONGRESS	100	72	72.0	100	74	74.0	100	74	74.0
NATIONAL AERONAUTICS & SPACE ADMIN	221,125	111,929	50.6	221,646	113,164	51.1	229,671	117,726	51.3
NATIONAL SCIENCE FOUNDATION	56,964	36,187	63.5	61,142	41,210	67.4	62,843	42,155	67.1
SMITHSONIAN INSTITUTION	33,685	24,253	72.0	37,276	27,323	73.3	41,286	28,281	68.5
TENNESSEE VALLEY AUTHORITY	4,100	3,280	80.0	4,300	3,440	80.0	4,900	3,920	80.0
VETERANS ADMINISTRATION	9,352	6,467	69.2	10,204	7,297	71.5	10,212	7,498	73.4

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1979			ESTIMATES					
				1980			1981		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	2,424,665	1,451,004	59.8%	2,616,147	1,588,422	60.7%	2,805,283	1,633,044	58.2%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	257,549	174,724	67.8	282,585	175,278	62.0	287,926	182,872	63.5
AGRICULTURAL MARKETING SERVICE	345	334	96.8	519	463	89.2	514	465	90.5
ECON, STAT & COOPERATIVES SERVICE	28,326	16,788	59.3	33,702	17,278	51.3	35,752	17,472	49.9
FOREST SERVICE	67,023	62,241	92.9	69,172	65,871	95.2	76,179	69,842	91.7
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	-	-	-	-	-	-	250	250	100.0
SCIENCE & EDUCATION ADMINISTRATION	161,855	95,361	58.9	179,192	91,666	51.2	175,231	94,943	54.1
AGRICULTURAL RESEARCH	158,317	91,823	58.0	175,052	87,526	50.0	171,038	90,650	53.0
COOPERATIVE RESEARCH	3,538	3,538	100.0	4,140	4,140	100.0	4,193	4,193	100.0
DEPARTMENT OF COMMERCE, TOTAL	140,264	83,916	59.8	156,993	93,357	59.5	169,590	100,178	59.1
BUREAU OF THE CENSUS	1,224	935	76.4	1,098	839	76.4	1,119	855	76.4
ECONOMIC DEVELOPMENT ADMIN	993	100	10.1	216	21	9.7	216	21	9.7
MARITIME ADMINISTRATION	1,772	1,504	84.9	1,700	1,473	86.6	1,700	1,533	90.2
NATIONAL BUREAU OF STANDARDS	42,296	30,487	72.1	46,163	33,274	72.1	47,063	33,923	72.1
NAT'L OCEANIC & ATMOSPHERIC ADMIN	91,577	49,136	53.7	99,314	51,543	51.9	110,219	57,143	51.8
NAT'L TELECOMM & INFO ADMIN	2,400	1,752	73.0	8,500	6,205	73.0	9,183	6,703	73.0
OFFICE OF THE SECRETARY	2	2	100.0	2	2	100.0	-	-	-
DEPARTMENT OF DEFENSE, TOTAL	698,820	463,264	66.3	739,556	513,856	69.5	873,988	540,990	61.9
DEPARTMENT OF THE ARMY	286,099	178,896	62.5	307,064	194,114	63.2	382,553	219,215	57.3
DEPARTMENT OF THE NAVY	177,353	112,099	63.2	188,410	119,916	63.6	244,293	120,598	49.4
DEPARTMENT OF THE AIR FORCE	153,174	127,393	83.2	156,037	150,962	96.7	166,052	159,265	95.9
DEFENSE AGENCIES	82,194	44,876	54.6	88,045	48,864	55.5	81,090	41,922	51.7
DEPARTMENT OF EDUCATION	5,748	2,622	45.6	5,836	4,547	77.9	6,493	5,064	78.0
DEPARTMENT OF ENERGY	48,495	15,691	32.4	54,752	17,319	31.6	48,704	18,296	37.6
DEPT OF HLTH & HUMAN SERVICES, TOTAL	359,016	196,931	54.9	391,121	223,755	57.2	400,426	233,286	58.3
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	20,636	10,696	51.8	24,281	13,021	53.6	25,720	13,805	53.7
CENTER FOR DISEASE CONTROL	55,964	47,569	85.0	68,015	57,813	85.0	69,234	58,849	85.0
FOOD & DRUG ADMINISTRATION	44,068	28,644	65.0	47,043	30,578	65.0	48,419	31,472	65.0
HEALTH CARE FINANCING ADMIN	3,682	460	12.5	5,740	718	12.5	6,424	803	12.5
HEALTH RESOURCES ADMINISTRATION	150	100	66.7	8	5	62.5	-	-	-
HEALTH SERVICES ADMINISTRATION	3,052	2,601	85.2	2,020	1,708	84.6	2,229	1,890	84.8
NATIONAL INSTITUTES OF HEALTH	206,515	90,646	43.9	215,241	103,214	48.0	220,002	108,818	49.5
OFFICE OF ASST'T SECY FOR HEALTH	4,863	4,249	87.4	4,710	3,345	71.0	4,826	3,080	63.8
OFF OF HUMAN DEVELOPMENT SVCS	1,472	879	59.7	1,724	1,119	64.9	1,527	951	62.3
OFFICE OF THE SECRETARY	3,274	500	15.3	3,200	500	15.6	2,400	500	20.8
SOCIAL SECURITY ADMINISTRATION	15,340	10,587	69.0	19,139	11,734	61.3	19,645	13,118	66.8
DEPT OF HOUSING & URBAN DEV	14,680	7,552	51.4	13,408	7,797	58.2	11,602	6,538	56.4
DEPARTMENT OF THE INTERIOR, TOTAL	156,890	99,594	63.5	160,274	102,478	63.9	160,095	84,953	53.1
BUREAU OF LAND MANAGEMENT	580	324	55.9	584	385	65.9	523	431	82.4
BUREAU OF MINES	28,000	22,400	80.0	27,800	22,200	79.9	26,200	20,900	79.8
GEOLOGICAL SURVEY	88,599	47,710	53.8	94,612	51,743	54.7	93,766	51,824	55.3
NATIONAL PARK SERVICE	5,898	3,643	61.8	5,934	3,836	64.6	7,633	4,689	61.4
OFF OF SURFACE MINING RECLAMATION & ENFORCEMENT	1,434	200	13.9	250	200	80.0	375	200	53.3
OFFICE OF WATER RSCH & TECHNOLOGY	1,310	1,100	84.0	600	500	83.3	600	500	83.3
US FISH & WILDLIFE SERVICE	25,890	20,592	79.5	24,564	19,463	79.2	25,842	2,800	10.8
WATER & POWER RESOURCES SVC	5,179	3,625	70.0	5,930	4,151	70.0	5,156	3,609	70.0
DEPARTMENT OF JUSTICE, TOTAL	2,253	1,132	50.2	2,870	1,550	54.0	2,272	1,302	57.3
DRUG ENFORCEMENT ADMIN	100	100	100.0	500	500	100.0	400	400	100.0
FEDERAL PRISON SYSTEM	4	4	100.0	5	5	100.0	6	6	100.0
IMMIGRATION & NATURALIZATION SVC	18	18	100.0	200	75	37.5	100	75	75.0
OFFICE OF THE ATTORNEY GENERAL	18	4	22.2	15	10	66.7	16	6	37.5
OFF OF JUSTICE ASSIST, RSCH, & STAT	2,113	1,006	47.6	2,150	960	44.7	1,750	815	46.6
DEPARTMENT OF LABOR, TOTAL	14,908	6,189	41.5	19,309	8,815	45.7	19,713	9,503	48.2
BUREAU OF LABOR STATISTICS	855	770	90.1	860	774	90.0	1,052	947	90.0
EMPLOYMENT STANDARDS ADMIN	3,455	3,025	87.6	5,788	5,530	95.5	6,483	5,647	87.1
EMPLOYMENT & TRAINING ADMIN	7,602	479	6.3	9,911	573	5.8	9,131	701	7.7
LABOR-MANAGEMENT SERVICES ADMIN	1,225	456	37.2	1,139	479	42.1	1,182	482	40.8
OCCUPATIONAL SAFETY & HEALTH ADMIN	406	246	60.6	246	246	100.0	300	300	100.0
OFFICE OF THE SECRETARY	1,365	1,213	88.9	1,365	1,213	88.9	1,565	1,426	91.1
DEPARTMENT OF STATE, TOTAL	892	566	63.5	665	558	83.9	660	556	84.2
DEPARTMENTAL FUNDS	892	566	63.5	665	558	83.9	660	556	84.2

CONTINUED ON NEXT PAGE

TABLE C-106. FEDERAL OBLIGATIONS FOR TOTAL APPLIED RESEARCH TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1979			ESTIMATES					
				1980			1981		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	21,721	11,748	54.1%	22,883	11,800	51.6%	23,507	11,244	47.8%
COAST GUARD	3,000	1,500	50.0	3,500	1,500	42.9	2,000	500	25.0
FEDERAL AVIATION ADMINISTRATION	1,650	907	55.0	1,694	932	55.0	2,684	1,476	55.0
FEDERAL HIGHWAY ADMINISTRATION	1,210	962	79.5	1,300	1,020	78.5	1,300	1,020	78.5
FEDERAL RAILROAD ADMINISTRATION	5,840	3,209	54.9	6,085	3,508	57.6	6,074	3,338	55.0
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	6,306	3,200	50.7	6,999	3,060	43.7	7,749	2,910	37.6
OFFICE OF THE SECRETARY	215	100	46.5	205	110	53.7	200	110	55.0
RESEARCH & SPECIAL PROGRAMS ADMIN ..	2,900	1,450	50.0	2,500	1,250	50.0	2,800	1,400	50.0
URBAN MASS TRANSPORTATION ADMIN	600	420	70.0	600	420	70.0	700	490	70.0
DEPARTMENT OF THE TREASURY, TOTAL	2,117	1,639	77.4	2,351	1,736	73.8	2,341	1,749	74.7
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	60	60	100.0	80	80	100.0	65	65	100.0
BUREAU OF ENGRAVING AND PRINTING ...	577	399	69.2	804	556	69.2	976	674	69.1
CUSTOMS SERVICE	-	-	-	100	10	10.0	100	10	10.0
INTERNAL REVENUE SERVICE	1,480	1,180	79.7	1,367	1,090	79.7	1,200	1,000	83.3
OTHER AGENCIES									
ADVISORY COMM ON INTERGOV'TL RELATIONS	1,696	1,037	61.1	1,717	1,122	65.3	1,836	1,148	62.5
APPALACHIAN REGIONAL COMMISSION	50	35	70.0	50	35	70.0	50	35	70.0
CIVIL AERONAUTICS BOARD	631	559	88.6	653	555	85.0	572	503	87.9
COMMUNITY SERVICES ADMINISTRATION	20	20	100.0	20	20	100.0	20	20	100.0
CONSUMER PRODUCT SAFETY COMMISSION ...	882	132	15.0	672	142	21.1	300	42	14.0
ENVIRONMENTAL PROTECTION AGENCY	114,990	45,330	39.4	100,820	39,820	39.5	113,350	41,670	36.8
FEDERAL COMMUNICATIONS COMMISSION	1,397	1,397	100.0	1,978	1,978	100.0	2,219	2,219	100.0
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,782	855	48.0	1,567	752	48.0	1,807	867	48.0
FEDERAL HOME LOAN BANK BOARD	863	515	59.7	1,127	581	51.6	1,204	584	48.5
FEDERAL TRADE COMMISSION	1,076	998	92.8	998	933	93.5	1,221	1,129	92.5
GENERAL SERVICES ADMINISTRATION	1	1	100.0	1	1	100.0	2	2	100.0
INTERNAT'L COMMUNICATION AGENCY	62	42	67.7	102	69	67.6	60	41	68.3
INTERNAT'L DEV COOPERATION AGENCY	6,458	3,082	47.7	6,108	4,615	75.6	6,354	4,890	77.0
AGENCY FOR INTERNAT'L DEVELOPMENT ..	6,458	3,082	47.7	5,228	3,735	71.4	5,454	3,990	73.2
INST FOR SCIEN & TECH COOPERATION ..	-	-	-	880	880	100.0	900	900	100.0
INTERSTATE COMMERCE COMMISSION	150	150	100.0	161	161	100.0	240	240	100.0
LIBRARY OF CONGRESS	500	206	41.2	600	221	36.8	400	221	55.2
NATIONAL AERONAUTICS & SPACE ADMIN ...	440,255	241,047	54.8	507,854	276,471	54.4	518,891	277,770	53.5
NATIONAL SCIENCE FOUNDATION	6,118	3,134	51.2	5,925	3,577	60.4	5,778	3,400	58.8
NUCLEAR REGULATORY COMMISSION	9,679	6,086	62.9	13,275	6,865	51.7	14,660	7,562	51.6
OFFICE OF PERSONNEL MANAGEMENT	1,354	1,354	100.0	1,669	1,669	100.0	1,634	1,634	100.0
TENNESSEE VALLEY AUTHORITY	8,212	6,159	75.0	13,180	10,412	79.0	18,210	14,932	82.0
US ARMS CONTROL & DISARMAMENT AGENCY .	460	330	71.7	520	300	57.7	500	250	50.0
US INTERNAT'L TRADE COMMISSION	3,417	2,734	80.0	2,679	2,143	80.0	4,059	3,247	80.0
VETERANS ADMINISTRATION	101,259	70,233	69.4	101,868	73,134	71.8	104,686	74,107	70.8

SOURCE: NATIONAL SCIENCE FOUNDATION

165

TABLE C-107. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

AGENCY AND SUBDIVISION	ACTUAL, 1979			ESTIMATES					
				1980			1981		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
TOTAL, ALL AGENCIES	4,045,739	2,232,982	55.2%	4,339,146	2,033,887	46.9%	4,987,513	2,234,379	44.8%
DEPARTMENTS									
DEPARTMENT OF AGRICULTURE, TOTAL	29,023	18,513	63.8	31,950	18,103	56.7	32,171	19,479	60.5
AGRICULTURAL MARKETING SERVICE	522	391	74.9	727	543	74.7	721	546	75.7
FOREST SERVICE	5,000	4,298	86.0	5,500	4,394	79.9	6,100	5,196	85.2
OFF OF INTERNAT'L COOPERATION & DEVELOPMENT	-	-	-	-	-	-	10	10	100.0
OFFICE OF TRANSPORTATION	665	579	87.1	822	715	87.0	871	759	87.1
SCIENCE & EDUCATION ADMINISTRATION	22,836	13,245	58.0	24,901	12,451	50.0	24,469	12,968	53.0
AGRICULTURAL RESEARCH	22,836	13,245	58.0	24,901	12,451	50.0	24,469	12,968	53.0
DEPARTMENT OF COMMERCE, TOTAL	37,124	24,007	64.7	38,227	24,648	64.5	43,423	27,139	62.5
BUREAU OF THE CENSUS	1,241	803	64.7	1,592	1,031	64.8	1,649	1,067	64.7
ECONOMIC DEVELOPMENT ADMIN	1,263	126	10.0	1,320	162	12.3	1,460	162	11.1
MARITIME ADMINISTRATION	200	175	87.5	100	85	85.0	100	85	85.0
NATIONAL BUREAU OF STANDARDS	11,237	8,169	72.7	11,272	8,169	72.5	11,672	8,485	72.7
NAT'L OCEANIC & ATMOSPHERIC ADMIN	20,988	13,074	62.3	22,583	14,146	62.6	26,600	15,805	59.4
NAT'L TELECOMM & INFO ADMIN	1,660	1,211	73.0	800	584	73.0	880	642	73.0
PATENT AND TRADEMARK OFFICE	535	449	83.9	560	471	84.1	1,062	893	84.1
DEPARTMENT OF DEFENSE, TOTAL	2,868,027	1,519,740	53.0	3,076,055	1,283,133	41.7	3,713,083	1,482,151	39.9
DEPARTMENT OF THE ARMY	781,359	371,323	47.5	835,980	371,271	44.4	936,413	397,328	42.4
DEPARTMENT OF THE NAVY	1,099,793	520,930	47.4	1,162,244	557,256	47.9	1,206,161	560,382	46.5
DEPARTMENT OF THE AIR FORCE	827,700	558,201	67.4	900,766	277,860	30.8	1,332,845	422,347	31.7
DEFENSE AGENCIES	135,120	68,486	50.7	151,427	75,846	50.1	202,076	101,044	50.0
DIRECTOR OF TEST & EVAL, DEFENSE	24,055	800	3.3	25,638	900	3.5	35,588	1,050	3.0
DEPARTMENT OF EDUCATION	9,928	2,614	26.3	10,425	7,588	72.8	9,052	6,713	74.2
DEPARTMENT OF ENERGY	308,588	148,903	48.3	349,121	144,736	41.5	348,590	140,472	40.3
DEPT OF HLTH & HUMAN SERVICES, TOTAL	46,976	40,558	86.3	47,589	42,855	90.1	48,352	44,871	92.8
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	25	25	100.0	144	144	100.0	137	137	100.0
HEALTH SERVICES ADMINISTRATION	1,520	1,320	86.8	3,100	2,701	87.1	4,089	3,584	87.6
NATIONAL INSTITUTES OF HEALTH	40,464	35,947	88.8	38,476	36,992	96.1	38,595	37,821	98.0
OFFICE OF ASST'T SECY FOR HEALTH	1,662	1,485	89.4	2,238	946	42.3	2,009	1,558	77.6
OFF OF HUMAN DEVELOPMENT SVCS	3,305	1,781	53.9	3,631	2,072	57.1	3,522	1,771	50.3
DEPT OF HOUSING & URBAN DEV	11,818	4,149	35.1	11,010	3,962	36.0	10,040	3,313	33.0
DEPARTMENT OF THE INTERIOR, TOTAL	30,195	23,797	78.8	27,527	21,132	76.8	25,261	19,905	78.8
BUREAU OF LAND MANAGEMENT	141	94	66.7	132	35	26.5	131	55	42.0
BUREAU OF MINES	15,271	12,100	79.2	13,237	10,000	75.5	10,776	8,500	78.9
GEOLOGICAL SURVEY	500	269	53.8	500	273	54.6	-	-	-
OFFICE OF WATER RSCH & TECHNOLOGY	1,315	1,100	83.7	600	500	83.3	600	500	83.3
US FISH & WILDLIFE SERVICE	12,168	9,674	79.5	11,858	9,484	80.0	12,654	10,080	79.7
WATER & POWER RESOURCES SVC	800	560	70.0	1,200	840	70.0	1,100	770	70.0
DEPARTMENT OF JUSTICE, TOTAL	2,053	1,245	60.6	2,928	1,844	63.0	2,272	1,387	61.0
DRUG ENFORCEMENT ADMIN	500	500	100.0	1,000	1,000	100.0	500	500	100.0
FEDERAL BUREAU OF INVESTIGATION	225	225	100.0	215	215	100.0	275	275	100.0
FEDERAL PRISON SYSTEM	822	378	46.0	912	409	44.8	1,002	440	43.9
IMMIGRATION & NATURALIZATION SVC	60	19	31.7	200	75	37.5	100	75	75.0
OFFICE OF THE ATTORNEY GENERAL	3	3	100.0	10	10	100.0	5	5	100.0
OFF OF JUSTICE ASSIST, RSCH, & STAT	443	120	27.1	591	135	22.8	390	92	23.6
DEPARTMENT OF LABOR, TOTAL	4,195	1,571	37.4	2,134	1,210	56.7	2,305	1,436	62.3
EMPLOYMENT & TRAINING ADMIN	4,195	1,571	37.4	2,134	1,210	56.7	2,305	1,436	62.3
DEPARTMENT OF STATE, TOTAL	134	60	44.8	50	22	44.0	40	18	45.0
DEPARTMENTAL FUNDS	134	60	44.8	50	22	44.0	40	18	45.0

CONTINUED ON NEXT PAGE

TABLE C-167. FEDERAL OBLIGATIONS FOR TOTAL DEVELOPMENT TO INTRAMURAL PERFORMERS FOR PERSONNEL COSTS, BY AGENCY: FISCAL YEARS 1979, 1980, AND 1981

(THOUSANDS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	ACTUAL, 1979			ESTIMATES					
				1980			1981		
	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL	TOTAL	PERSONNEL COSTS	PERCENT OF TOTAL
DEPARTMENT OF TRANSPORTATION, TOTAL ..	88,556	49,958	56.4%	85,795	49,750	58.0%	89,653	50,689	56.5%
COAST GUARD	3,000	1,500	50.0	3,000	1,800	60.0	5,000	2,000	40.0
FEDERAL AVIATION ADMINISTRATION	24,720	13,596	55.0	22,896	12,593	55.0	24,696	13,583	55.0
FEDERAL HIGHWAY ADMINISTRATION	10,854	9,225	85.0	11,500	9,500	82.6	11,500	9,500	82.6
FEDERAL RAILROAD ADMINISTRATION	10,184	5,596	54.9	10,236	6,284	61.4	10,394	5,653	54.4
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	5,745	1,660	28.9	5,647	1,640	29.0	5,376	1,900	35.3
OFFICE OF THE SECRETARY	4,097	1,903	46.4	3,916	2,133	54.5	3,787	2,103	55.5
RESEARCH & SPECIAL PROGRAMS ADMIN ..	5,900	4,450	75.4	5,900	4,450	75.4	6,200	4,600	74.2
URBAN MASS TRANSPORTATION ADMIN	24,056	12,028	50.0	22,700	11,350	50.0	22,700	11,350	50.0
DEPARTMENT OF THE TREASURY, TOTAL	795	529	66.5	2,534	1,453	57.3	4,051	2,384	58.8
BUREAU OF ALCOHOL, TOBACCO, & FIREARMS	62	62	100.0	82	82	100.0	70	70	100.0
BUREAU OF ENGRAVING AND PRINTING ...	525	322	61.3	1,742	1,219	70.0	2,994	2,096	70.0
CUSTOMS SERVICE	118	75	63.6	707	150	21.2	977	210	21.5
INTERNAL REVENUE SERVICE	90	70	77.8	3	2	66.7	10	8	80.0
OTHER AGENCIES									
ACTION	114	114	100.0	135	135	100.0	159	159	100.0
APPALACHIAN REGIONAL COMMISSION	10	8	80.0	10	8	80.0	10	8	80.0
COMMUNITY SERVICES ADMINISTRATION	1,500	1,500	100.0	1,500	1,500	100.0	1,500	1,500	100.0
CONSUMER PRODUCT SAFETY COMMISSION ...	1,53[illegible]	230	15.0	1,178	165	14.0	1,116	155	13.9
ENVIRONMENTAL PROTECTION AGENCY	55,980	20,180	36.0	58,560	21,500	36.7	59,500	22,000	37.0
EXECUTIVE OFF (ENERGY SECURITY TRUST FUND)	-	-	-	750	500	66.7	1,350	1,100	81.5
FEDERAL EMERGENCY MANAGEMENT AGENCY ..	1,696	814	48.0	1,342	644	48.0	1,342	644	48.0
GENERAL SERVICES ADMINISTRATION	1	1	100.0	5	4	80.0	1	1	100.0
INTERNAT'L COMMUNICATION AGENCY	25	10	40.0	26	10	38.5	80	54	67.5
INTERNAT'L DEV COOPERATION AGENCY	1,310	1,000	76.3	6	3	50.0	6	3	50.0
AGENCY FOR INTERNAT'L DEVELOPMENT ..	1,310	1,000	76.3	3	2	66.7	3	2	66.7
INST FOR SCIEN & TECH COOPERATION ..	-	-	-	3	1	33.3	3	1	33.3
LIBRARY OF CONGRESS	4,800	3,571	74.4	4,300	3,556	82.7	4,300	3,556	82.7
NATIONAL AERONAUTICS & SPACE ADMIN ...	515,754	351,897	68.2	543,954	373,428	68.7	542,377	369,151	68.1
NATIONAL SCIENCE FOUNDATION	124	124	100.0	269	124	46.1	330	124	37.6
OFFICE OF PERSONNEL MANAGEMENT	2,134	2,134	100.0	2,226	2,226	100.0	2,304	2,304	100.0
TENNESSEE VALLEY AUTHORITY	10,120	6,578	65.0	23,569	17,441	74.0	28,917	21,688	75.0
US ARMS CONTROL & DISARMAMENT AGENCY .	8	2	25.0	60	50	83.3	10	2	20.0
VETERANS ADMINISTRATION	13,218	9,175	69.4	15,911	12,157	76.4	15,918	11,973	75.2

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-108. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
TOTAL, ALL AGENCIES	15,971.0	16,727.4	17,489.1	18,297.5	19,551.3	21,021.3	23,379.7	25,679.6	27,842.8	31,661.1	34,991.6
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	318.9	357.9	357.1	381.5	425.6	468.8	537.8	572.4	630.5	690.8	705.2
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.4	35.6	42.1	44.5
ECONOMIC RESEARCH SVC	14.8	16.8	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.9	1.1	1.1	1.2	1.2	1.4	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.7	.6	1.2	2.0	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	50.2	56.5	58.3	65.6	72.5	90.3	92.5	86.7	105.7	115.2	118.3
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	414.7	453.3	497.8	531.3	531.6
AGRICULTURAL RESEARCH	182.8	208.7	199.3	210.5	232.8	247.4	294.6	318.4	331.2	347.1	341.3
COOPERATIVE RESEARCH	69.1	73.7	82.1	85.2	95.6	104.2	120.2	134.9	156.6	184.2	190.2
TECHNICAL INFO SYSTEMS	.4	.3	.3	.2	.1	*	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	-	1.4	2.2	2.2
DEPARTMENT OF COMMERCE, TOTAL	122.9	168.2	186.2	188.2	224.6	233.3	238.2	272.7	307.1	349.4	363.3
NATIONAL BUREAU OF STANDARDS	33.5	34.7	36.8	42.5	47.2	49.1	53.1	59.0	64.8	74.5	82.0
NAT'L OCEANIC & ATMOS ADMIN	68.4	109.7	114.4	109.5	127.7	134.5	132.6	164.7	190.1	215.9	225.8
OTHER COMMERCE	21.0	23.8	34.9	36.3	49.7	49.8	52.5	48.9	52.2	59.1	55.6
DEPARTMENT OF DEFENSE, TOTAL	7,706.0	8,297.2	8,597.6	8,979.7	9,363.5	9,445.5	10,308.0	10,935.4	11,733.1	13,175.0	15,627.7
DEPARTMENT OF THE ARMY	1,670.6	1,889.8	2,042.4	2,308.6	2,083.0	1,969.6	2,195.0	2,464.3	2,536.2	2,809.9	3,148.1
DEPARTMENT OF THE NAVY	2,477.9	2,501.5	2,498.9	2,715.8	3,126.3	3,320.1	3,582.6	3,919.4	3,926.4	4,404.7	4,811.4
DEPARTMENT OF THE AIR FORCE	3,025.6	3,426.2	3,588.5	3,442.3	3,567.6	3,625.2	3,902.2	3,969.9	4,428.0	4,968.8	6,454.3
DEFENSE AGENCIES	527.5	475.7	461.3	485.2	556.9	507.5	610.5	555.1	814.2	959.6	1,175.9
DEFENSE CIVIL PREPAREDNESS AGENCY	4.5	4.0	3.0	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	N/A	N/A	3.4	25.5	26.8	[illegible]0.9	16.5	23.9	28.3	32.0	38.0
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	136.5	145.5	147.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	3,593.1	4,413.0	4,956.8	5,776.2	5,904.4
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,326.8	1,554.5	1,878.4	1,960.6	2,168.2	2,615.0	2,622.2	3,070.2	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	112.6	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	195.5	236.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	35.8	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	946.0	1,112.1	1,373.7	1,435.4	1,684.4	2,118.4	2,105.0	2,507.1	N/A	N/A	N/A
OFFICE OF EDUCATION	114.8	108.0	102.2	66.3	53.1	56.8	30.3	25.8	N/A	N/A	N/A
OTHER HEW	70.5	97.5	254.1	234.6	233.8	225.0	260.1	282.6	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,172.7	3,468.5	3,649.3
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	184.7	201.3	222.4
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,713.4	2,948.2	3,083.1
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	274.5	319.0	343.7
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	40.5	50.1	47.8	58.4	58.7	60.3	69.0	59.3	74.3	66.1	64.2
DEPT OF THE INTERIOR, TOTAL	182.8	213.0	254.1	194.8	266.0	319.7	304.0	339.9	404.3	413.9	432.8
BUREAU OF MINES	50.0	66.2	68.6	66.7	82.7	113.7	103.7	104.2	121.4	108.0	111.4
GEOLOGICAL SURVEY	41.9	50.2	62.7	68.7	95.2	115.7	112.2	128.7	144.2	146.6	151.7
OTHER INTERIOR	91.0	96.6	122.8	59.4	88.1	90.4	88.1	107.0	138.7	159.3	169.8
DEPARTMENT OF JUSTICE, TOTAL	9.9	11.9	22.2	40.5	43.8	39.9	33.7	33.5	45.9	48.1	60.0
LAW ENFORCEMENT ASSISTANCE ADMIN	7.8	9.6	19.9	34.5	39.2	35.2	27.6	27.1	N/A	N/A	N/A
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35.5	35.8	49.2
OTHER JUSTICE	2.0	2.3	2.3	6.0	4.6	4.7	6.2	6.3	10.4	12.4	10.8
DEPARTMENT OF LABOR, TOTAL	22.1	23.0	18.3	22.5	25.4	27.8	28.1	97.6	109.2	167.7	216.9
DEPARTMENT OF STATE, TOTAL	29.5	21.7	20.8	24.8	28.6	27.0	44.1	57.5	3.2	2.8	2.7
AGENCY FOR INTERNAT'L DEVMNT	29.1	21.2	19.3	23.2	27.4	25.4	41.8	54.6	N/A	N/A	N/A
OTHER STATE	.4	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.8	2.7
DEPT OF TRANSPORTATION, TOTAL	477.8	287.0	337.3	363.7	339.2	335.7	363.5	377.3	372.4	364.7	359.0
FEDERAL AVIATION ADMIN	340.1	167.1	88.6	115.8	113.7	114.6	102.8	100.2	111.4	106.4	112.3
FEDERAL HIGHWAY ADMIN	28.5	23.3	23.5	33.5	26.8	42.9	53.0	52.9	48.9	61.6	55.4
FEDERAL RAILROAD ADMIN	25.6	22.5	41.4	38.3	51.1	48.5	57.3	62.4	58.0	50.0	45.2
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	22.9	34.8	47.6	44.4	36.2	33.8	49.5	68.5	53.6	54.2	59.2
URBAN MASS TRANS ADMIN	19.1	60.8	72.2	57.8	60.9	48.2	52.1	52.5	50.5	43.0	37.6
OTHER TRANSPORTATION	41.7	30.6	63.9	73.9	50.6	47.7	48.8	40.8	49.9	49.5	49.3

CONTINUED ON NEXT PAGE

TABLE C-108. FEDERAL OUTLAYS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
DEPT OF THE TREASURY, TOTAL	0.8	1.3	1.0	1.1	1.7	3.8	5.0	9.9	9.6	12.5	11.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,604.9	1,551.3	1,624.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	1,825.0	2,246.6	2,553.7	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	101.0	133.8	147.7	172.2	218.6	265.6	283.0	312.5	388.9	435.1	465.2
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80.3	112.5	123.5
NAT'L AERONAUTICS & SPACE ADMIN .	3,381.9	3,422.9	3,315.2	3,256.2	3,266.5	3,669.0	3,945.3	3,983.1	4,196.5	5,002.6	5,215.7
NATIONAL SCIENCE FOUNDATION	373.9	435.0	470.9	584.7	600.4	669.1	674.7	738.6	804.6	870.0	940.6
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	46.1	58.5	76.9	107.8	131.7	145.4	188.6	210.9
OFFICE OF ECONOMIC OPPORTUNITY ..	129.5	81.2	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	67.9	76.1	82.8	85.7	97.0	109.5	112.8	123.9	123.1	134.1	142.4
ALL OTHER AGENCIES	74.0	41.4	50.4	111.7	118.3	100.5	109.5	151.2	148.7	236.9	248.6

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-109. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL AGENCIES	15,358.3	16,162.9	16,850.7	17,592.9	18,721.6	20,220.7	22,579.4	24,571.8	26,640.0	29,953.0	33,099.7
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	311.3	348.1	348.5	375.6	417.7	460.0	515.3	553.8	608.7	652.9	664.5
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.4	35.6	42.1	44.5
ECONOMIC RESEARCH SVC	14.8	16.8	15.2	18.1	22.2	23.6	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.9	1.1	1.1	1.2	1.2	1.4	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.7	.6	1.2	2.0	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	49.1	55.2	54.7	63.3	68.6	86.9	89.0	84.6	102.2	111.6	118.3
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	395.7	436.8	469.5	497.0	490.9
AGRICULTURAL RESEARCH	177.7	200.9	194.7	207.1	228.8	242.0	275.6	301.9	312.9	312.9	300.7
COOPERATIVE RESEARCH	67.8	73.1	81.8	85.0	95.5	104.2	120.1	134.9	156.6	184.2	190.2
TECHNICAL INFO SYSTEMS	.4	.3	.3	.2	.1	*	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	-	1.4	2.2	2.2
DEPARTMENT OF COMMERCE, TOTAL	118.2	164.1	180.4	176.3	214.1	225.5	232.5	269.2	305.2	344.7	362.0
NATIONAL BUREAU OF STANDARDS	31.8	33.7	35.6	40.7	45.3	48.0	52.6	58.1	63.4	74.1	81.5
NAT'L OCEANIC & ATMOS ADMIN	65.4	107.0	110.9	101.6	119.8	129.4	131.2	162.5	190.1	212.0	225.5
OTHER COMMERCE	21.0	23.5	33.9	34.0	49.0	48.1	48.8	48.6	51.7	58.6	55.1
DEPARTMENT OF DEFENSE, TOTAL	7,561.5	8,138.8	8,440.6	8,814.9	9,210.6	9,301.3	10,182.4	10,622.8	11,497.3	12,869.4	15,244.3
DEPARTMENT OF THE ARMY	1,637.9	1,859.4	1,996.4	2,277.2	2,053.1	1,949.0	2,180.2	2,457.5	2,534.1	2,805.1	3,136.5
DEPARTMENT OF THE NAVY	2,449.4	2,462.1	2,466.4	2,668.3	3,078.5	3,260.8	3,519.0	3,870.3	3,873.5	4,333.5	4,726.8
DEPARTMENT OF THE AIR FORCE	2,975.9	3,362.6	3,533.1	3,374.1	3,513.1	3,568.1	3,862.2	3,719.8	4,263.1	4,760.7	6,202.1
DEFENSE AGENCIES	493.8	450.7	438.3	467.4	536.2	500.3	603.3	548.5	798.3	938.1	1,140.9
DEFENSE CIVIL PREPAREDNESS AGENCY	4.5	4.0	3.0	2.3	3.0	2.2	1.2	2.9	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	N/A	N/A	3.4	25.5	26.8	20.9	16.5	23.9	28.3	32.0	38.0
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	136.5	145.5	147.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	3,166.0	3,931.7	4,303.3	4,767.6	4,829.2
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,282.5	1,516.7	1,815.7	1,927.3	2,082.3	2,562.6	2,576.6	3,002.2	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	112.6	127.3	114.1	145.1	167.2	179.9	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	195.0	236.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	35.8	96.9	82.8	69.8	59.7	74.8	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	905.8	1,087.4	1,333.3	1,407.6	1,602.8	2,066.5	2,063.7	2,440.3	N/A	N/A	N/A
OFFICE OF EDUCATION	111.2	94.9	94.0	62.8	53.1	56.8	30.3	25.8	N/A	N/A	N/A
OTHER HEW	70.5	97.5	240.0	232.8	229.5	224.5	255.8	281.4	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,099.3	3,403.5	3,609.1
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	184.4	201.2	221.2
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,641.0	2,885.1	3,049.0
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	273.9	317.2	339.0
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	40.5	50.1	47.8	58.4	58.7	60.3	69.0	59.3	74.3	66.1	64.2
DEPT OF THE INTERIOR, TOTAL	175.9	208.2	237.4	192.8	263.6	319.0	299.5	332.3	395.3	402.1	422.6
BUREAU OF MINES	50.0	66.2	68.6	66.7	82.7	113.7	100.7	104.1	117.1	105.0	109.4
GEOLOGICAL SURVEY	41.9	50.2	62.1	68.3	95.2	115.7	112.2	128.7	144.2	146.6	151.7
OTHER INTERIOR	84.1	91.9	106.8	57.9	85.7	89.6	86.6	99.4	134.0	150.5	161.5
DEPARTMENT OF JUSTICE, TOTAL	9.9	11.9	22.2	40.5	43.8	39.9	33.7	33.5	45.9	48.1	60.0
LAW ENFORCEMENT ASSISTANCE ADMIN	7.8	9.6	19.9	34.5	39.2	35.2	27.6	27.1	N/A	N/A	N/A
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	35.5	35.8	49.2
OTHER JUSTICE	2.0	2.3	2.3	6.0	4.6	4.7	6.2	6.3	10.4	12.4	10.8
DEPARTMENT OF LABOR, TOTAL	22.1	23.0	18.3	22.5	25.4	27.8	28.1	97.6	109.2	167.7	216.9
DEPARTMENT OF STATE, TOTAL	28.5	18.4	20.2	24.5	28.4	25.9	40.1	57.4	3.2	2.8	2.7
AGENCY FOR INTERNAT'L DEVMNT	28.2	17.9	18.7	23.0	27.1	24.3	37.8	54.5	N/A	N/A	N/A
OTHER STATE	.4	.6	1.5	1.6	1.2	1.6	2.3	2.8	3.2	2.8	2.7
DEPT OF TRANSPORTATION, TOTAL	468.2	273.7	312.3	328.4	324.5	323.6	346.0	364.1	356.2	339.1	344.8
FEDERAL AVIATION ADMIN	339.3	106.1	88.1	115.2	110.9	112.7	99.8	99.2	101.9	98.3	105.9
FEDERAL HIGHWAY ADMIN	28.3	22.8	23.4	33.1	26.4	42.5	52.6	52.5	48.7	54.6	54.8
FEDERAL RAILROAD ADMIN	21.0	16.7	31.8	34.4	42.0	40.5	45.6	51.5	51.7	39.7	38.3
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	22.9	34.8	47.6	44.4	36.2	33.8	49.3	68.3	53.4	54.0	59.0
URBAN MASS TRANS ADMIN	16.6	56.9	69.0	54.1	59.1	46.9	50.4	52.5	50.5	43.0	37.6
OTHER TRANSPORTATION	40.0	36.4	52.4	47.1	50.0	47.2	48.3	40.1	49.9	49.5	49.3

CONTINUED ON NEXT PAGE

TABLE C-109. FEDERAL OUTLAYS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
DEPT OF THE TREASURY, TOTAL	0.8	1.3	1.0	1.1	1.7	3.7	4.9	9.9	9.5	12.5	11.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,302.9	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	1,488.9	1,835.4	2,189.5	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	100.6	133.1	144.7	161.3	207.2	259.0	281.3	310.3	386.5	433.1	462.7
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	75.8	105.5	115.8
NAT'L AERONAUTICS & SPACE ADMIN .	3,337.8	3,372.5	3,270.5	3,181.1	3,181.2	3,548.1	3,840.3	3,858.9	4,063.8	4,848.7	5,059.7
NATIONAL SCIENCE FOUNDATION	334.7	417.5	427.8	570.7	571.3	619.0	649.6	700.5	775.2	851.9	924.3
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	42.3	55.8	73.3	101.7	125.4	137.5	181.4	201.4
OFFICE OF ECONOMIC OPPORTUNITY ..	129.5	81.2	76.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	60.8	66.5	75.0	80.4	94.8	97.7	106.9	114.3	120.3	129.7	133.3
ALL OTHER AGENCIES	72.7	40.1	48.2	105.9	105.2	84.5	105.5	128.9	137.2	180.7	222.9

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-110. FEDERAL OUTLAYS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
TOTAL, ALL AGENCIES	612.7	564.4	638.4	704.6	829.7	800.6	800.2	1,107.8	1,202.8	1,708.1	1,791.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	7.6	9.7	8.6	5.9	7.9	8.8	22.5	18.6	21.7	37.9	40.7
DEPARTMENT OF COMMERCE, TOTAL ...	4.7	4.1	5.8	11.9	10.5	7.8	5.7	3.5	1.9	4.7	1.4
DEPARTMENT OF DEFENSE, TOTAL	144.5	158.4	157.0	169.9	152.9	144.2	125.6	312.6	235.8	305.6	383.4
DEPARTMENT OF THE ARMY	32.7	30.4	46.0	31.4	30.0	20.6	14.8	6.8	2.1	4.8	11.6
DEPARTMENT OF THE NAVY	28.4	39.4	32.5	47.5	47.8	59.3	63.6	49.1	52.9	71.2	84.6
DEPARTMENT OF THE AIR FORCE ...	49.7	63.6	55.4	68.2	54.5	57.1	40.0	250.1	164.9	208.1	252.2
DEFENSE AGENCIES	33.7	25.0	23.0	17.7	20.6	7.2	7.2	6.6	15.9	21.5	35.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	427.1	481.3	653.5	1,008.6	1,075.2
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	44.3	37.8	62.7	33.3	85.9	52.4	45.6	68.0	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	73.4	65.0	40.[illegible]
DEPT OF THE INTERIOR, TOTAL	7.0	4.8	16.7	2.0	2.4	.8	4.4	7.7	9.0	11.8	10.2
DEPARTMENT OF STATE, TOTAL	1.0	3.3	.6	.2	.3	1.2	4.0	.1	-	-	-
DEPT OF TRANSPORTATION, TOTAL ...	9.6	13.3	25.0	35.4	14.7	12.1	17.5	13.2	16.2	25.6	14.1
DEPT OF THE TREASURY, TOTAL	*	*	*	*	*	.1	.1	*	*	*	.1
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	302.0	253.6	261.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	336.1	411.2	364.2	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	.4	.7	3.0	10.9	11.3	6.7	1.6	2.2	2.4	2.0	2.5
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	7.0	7.7
NAT'L AERONAUTICS & SPACE ADMIN .	44.1	50.3	44.7	75.1	85.3	120.9	105.0	124.3	132.7	153.9	156.0
NATIONAL SCIENCE FOUNDATION	39.2	17.5	43.1	14.0	29.1	50.1	25.1	38.0	29.4	18.1	16.3
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	3.8	2.6	3.5	6.1	6.2	8.0	7.1	9.5
VETERANS ADMINISTRATION	7.0	9.6	7.8	5.3	2.2	11.8	5.9	9.7	2.8	4.4	9.0
ALL OTHER AGENCIES	1.3	1.3	2.3	5.8	13.2	16.0	4.0	22.3	11.5	56.2	25.7

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-111. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL AGENCIES	16,154.0	17,098.2	17,574.8	18,176.8	19,860.0	21,616.8	25,350.7	27,683.7	30,453.8	33,902.9	37,469.7
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	310.0	357.4	369.4	387.5	427.9	478.6	559.9	645.9	685.7	773.0	814.9
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.5	42.1	44.6
ECONOMIC RESEARCH SVC	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	47.1	58.7	59.6	65.6	81.5	82.8	92.1	108.3	111.0	115.7	124.1
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	437.3	505.0	537.5	613.1	635.3
AGRICULTURAL RESEARCH	177.5	198.0	201.2	208.3	221.6	255.3	310.1	347.5	365.0	427.0	435.7
COOPERATIVE RESEARCH	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	186.1	199.6
TECHNICAL INFO SYSTEMS	.4	.2	.3	.1	*	*	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	-	1.6	2.2	2.2
DEPARTMENT OF COMMERCE, TOTAL	152.9	194.7	198.5	192.2	224.9	235.5	251.8	287.7	311.8	343.0	373.9
NATIONAL BUREAU OF STANDARDS	33.8	36.6	38.9	41.1	44.6	47.9	53.9	59.1	69.3	76.4	79.7
NAT'L OCEANIC & ATMOS ADMIN	83.4	120.1	119.3	117.0	135.1	139.1	147.2	163.7	171.2	194.1	220.0
OTHER COMMERCE	35.8	38.0	40.2	34.1	45.3	48.5	50.7	64.9	71.3	72.5	74.3
DEPARTMENT OF DEFENSE, TOTAL	7,662.7	8,492.9	8,550.6	8,589.5	9,179.6	9,798.1	11,409.0	11,786.2	12,776.4	14,156.4	17,049.5
DEPARTMENT OF THE ARMY	1,726.0	2,103.7	2,036.7	2,042.0	1,920.7	2,026.0	2,458.2	2,556.5	2,772.5	2,969.2	3,380.4
DEPARTMENT OF THE NAVY	2,311.7	2,559.7	2,690.5	2,772.6	3,162.8	3,373.8	3,878.6	4,046.7	4,403.1	4,881.1	4,984.6
DEPARTMENT OF THE AIR FORCE	3,163.2	3,325.1	3,344.1	3,283.9	3,573.1	3,799.6	4,381.1	4,422.4	4,693.1	5,277.6	7,347.4
DEFENSE AGENCIES	458.8	500.4	457.1	464.1	497.4	573.9	659.5	724.5	878.4	995.8	1,294.9
DEFENSE CIVIL PREPAREDNESS AGENCY	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	32.6	42.2
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	166.3	153.1	164.1
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	4,097.2	4,935.5	5,483.2	6,234.0	6,207.2
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,493.4	1,806.1	1,879.1	2,331.0	2,436.5	2,616.7	2,955.9	3,281.5	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	122.2	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	223.5	249.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	106.8	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,055.3	1,321.1	1,355.5	1,777.3	1,918.2	2,092.5	2,411.7	2,654.2	N/A	N/A	N/A
OFFICE OF EDUCATION	132.8	130.2	58.3	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A
OTHER HEW	81.8	105.0	236.4	270.9	263.1	262.8	295.3	324.7	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,558.4	3,818.7	3,961.9
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	214.4	237.0	267.5
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,000.8	3,201.9	3,295.3
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	343.2	379.8	399.2
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	47.7	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9	61.5	64.1
DEPT OF THE INTERIOR, TOTAL	200.0	232.5	265.8	194.5	307.2	339.1	319.7	374.0	410.8	436.8	434.2
BUREAU OF MINES	60.3	70.9	77.5	66.1	107.6	131.3	105.3	121.1	121.3	118.9	109.0
GEOLOGICAL SURVEY	41.9	51.6	67.3	66.6	106.6	110.3	117.5	133.7	145.6	153.2	151.5
OTHER INTERIOR	97.8	110.0	121.0	61.8	93.0	97.5	96.8	119.3	143.9	164.8	173.8
DEPARTMENT OF JUSTICE, TOTAL	10.3	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0	47.6	42.6
LAW ENFORCEMENT ASSISTANCE ADMIN	7.5	21.0	30.4	27.3	40.9	29.2	21.8	51.6	N/A	N/A	N/A
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.2	34.4	32.5
OTHER JUSTICE	2.8	2.4	2.8	7.4	3.4	4.6	5.8	9.3	10.7	13.2	10.1
DEPARTMENT OF LABOR, TOTAL	22.8	23.1	19.9	23.9	25.4	28.5	29.6	97.8	137.0	164.0	192.8
DEPARTMENT OF STATE, TOTAL	39.0	29.2	26.6	[illegible]	27.9	44.5	77.6	85.4	3.2	2.8	2.7
AGENCY FOR INTERNAT'L DEVMNT	38.6	28.6	25.1	[illegible]	26.7	42.9	75.3	82.6	N/A	N/A	N/A
OTHER STATE	.4	.6	1.5	[illegible]	1.2	1.6	2.3	2.8	3.2	2.8	2.7
DEPT OF TRANSPORTATION, TOTAL	508.0	336.3	348.9	[illegible]	324.8	308.7	377.1	422.4	392.7	388.0	396.3
FEDERAL AVIATION ADMIN	347.4	102.4	81.0	125.4	109.0	100.1	106.4	111.5	120.4	111.5	121.7
FEDERAL HIGHWAY ADMIN	27.1	20.8	23.7	41.2	45.1	29.3	55.9	52.1	53.5	62.2	56.1
FEDERAL RAILROAD ADMIN	25.3	36.6	46.9	37.4	39.4	60.5	58.5	65.7	56.1	58.3	56.3
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	26.7	50.0	54.6	53.6	34.0	31.4	47.2	66.5	56.8	59.2	62.7
URBAN MASS TRANS ADMIN	43.0	63.9	74.4	69.2	49.4	48.8	61.6	69.6	58.0	47.9	48.9
OTHER TRANSPORTATION	38.4	62.5	68.3	56.4	47.8	38.6	47.5	57.0	47.8	48.9	50.6

CONTINUED ON NEXT PAGE

TABLE C-111. FEDERAL OBLIGATIONS FOR RESEARCH, DEVELOPMENT, AND R&D PLANT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
DEPT OF THE TREASURY, TOTAL	0.8	1.3	1.0	1.1	1.7	3.8	4.9	9.9	9.6	12.5	11.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,615.2	1,544.4	1,712.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	1,881.6	2,439.9	2,902.6	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	137.8	123.0	205.1	170.5	259.7	265.4	297.6	389.3	412.5	416.8	447.4
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	112.9	126.3	141.6
NAT'L AERONAUTICS & SPACE ADMIN .	3,298.2	3,262.5	3,130.2	3,100.5	3,207.1	3,529.0	3,821.5	4,037.8	4,558.5	5,269.8	5,517.7
NATIONAL SCIENCE FOUNDATION	364.8	473.5	537.0	568.1	618.1	661.8	724.1	788.5	838.1	923.6	1,011.7
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	46.1	67.2	98.1	119.4	140.8	157.4	204.1	228.2
OFFICE OF ECONOMIC OPPORTUNITY ..	134.0	92.7	87.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	77.9	71.3	84.6	86.9	97.0	109.5	112.9	118.1	132.1	141.7	150.5
ALL OTHER AGENCIES	78.5	45.0	67.0	97.9	108.8	95.4	112.9	152.3	196.5	229.1	256.6

*   INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-112. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL AGENCIES	15,542.8	16,496.2	16,800.4	17,410.5	19,039.2	20,790.1	23,983.5	26,388.0	28,978.4	31,578.2	35,492.1
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	304.9	349.6	366.5	378.7	420.1	462.4	547.0	621.3	663.0	731.7	777.5
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	30.5	32.7	35.5	42.1	44.6
ECONOMIC RESEARCH SVC	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.7	.7	.7	.6	1.2	1.9	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	46.0	55.2	58.4	65.5	78.2	79.9	90.3	105.6	107.5	112.1	124.1
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	426.2	483.0	518.4	575.4	598.0
AGRICULTURAL RESEARCH	173.5	193.8	199.5	203.5	217.1	242.1	298.9	325.5	345.8	389.3	403.3
COOPERATIVE RESEARCH	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	186.1	194.6
TECHNICAL INFO SYSTEMS	.4	.2	.3	.1	*	*	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	-	1.6	2.2	2.2
DEPARTMENT OF COMMERCE, TOTAL	143.7	187.3	190.6	180.6	215.4	228.9	244.7	283.7	309.4	338.3	372.6
NATIONAL BUREAU OF STANDARDS	32.6	34.7	36.8	40.2	43.2	47.4	53.2	58.3	67.8	76.1	79.1
NAT'L OCEANIC & ATMOS ADMIN	79.0	115.2	115.6	109.1	128.0	135.1	145.7	161.5	171.2	190.2	219.7
OTHER COMMERCE	32.2	37.4	38.1	31.3	44.2	46.3	45.8	63.9	70.4	72.0	73.8
DEPARTMENT OF DEFENSE, TOTAL	7,509.0	8,318.1	8,404.2	8,420.4	9,012.5	9,654.7	10,963.4	11,553.6	12,506.2	13,787.7	16,604.4
DEPARTMENT OF THE ARMY	1,682.4	2,064.2	2,013.6	2,009.9	1,896.7	2,013.7	2,441.9	2,548.9	2,768.7	2,951.9	3,363.9
DEPARTMENT OF THE NAVY	2,283.7	2,519.4	2,654.8	2,718.5	3,100.2	3,328.0	3,817.4	3,998.4	4,335.0	4,809.6	4,891.3
DEPARTMENT OF THE AIR FORCE	3,113.5	3,254.3	3,273.5	3,216.2	3,513.5	3,726.6	4,031.1	4,262.3	4,525.6	5,021.8	7,059.9
DEFENSE AGENCIES	426.5	476.4	434.1	448.9	476.5	561.6	641.4	707.9	847.6	971.7	1,247.1
DEFENSE CIVIL PREPAREDNESS AGENCY	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A
DIRECTOR OF TEST & EVALUATION	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	32.6	42.2
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	166.3	153.1	164.1
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	3,536.2	4,244.8	4,638.8	4,949.7	4,994.8
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,476.1	1,751.1	1,837.6	2,290.1	2,397.5	2,583.6	2,823.3	3,207.3	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	122.2	155.6	139.4	139.5	153.0	180.2	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	222.9	244.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	106.8	75.7	69.9	63.7	64.9	89.5	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	1,039.0	1,271.3	1,314.2	1,736.8	1,879.9	2,060.2	2,279.9	2,580.9	N/A	N/A	N/A
OFFICE OF EDUCATION	132.4	130.1	58.3	51.5	45.9	58.2	31.1	32.9	N/A	N/A	N/A
OTHER HEW	81.8	105.0	236.1	270.5	262.4	261.9	294.5	323.8	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,504.9	3,776.9	3,907.5
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	214.3	236.2	262.1
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,953.1	3,161.6	3,272.9
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	337.5	379.1	372.6
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	47.7	49.1	57.8	64.8	62.0	67.6	52.1	69.7	67.9	61.5	64.1
DEPT OF THE INTERIOR, TOTAL	191.5	218.7	243.7	192.4	303.3	333.2	314.7	359.0	405.8	425.6	425.0
BUREAU OF MINES	60.3	70.9	77.5	66.1	107.6	131.3	101.9	114.0	121.0	116.7	109.0
GEOLOGICAL SURVEY	41.9	51.5	66.6	66.2	106.6	110.3	117.5	133.7	145.6	153.2	151.5
OTHER INTERIOR	89.3	96.3	99.6	60.1	89.1	91.6	95.3	111.4	139.2	155.7	164.5
DEPARTMENT OF JUSTICE, TOTAL	10.3	23.4	33.2	34.7	44.3	33.9	27.7	60.9	43.0	47.6	42.6
LAW ENFORCEMENT ASSISTANCE ADMIN	7.5	21.0	30.4	27.3	40.9	29.2	21.8	51.6	N/A	N/A	N/A
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	32.2	34.4	32.5
OTHER JUSTICE	2.8	2.4	2.8	7.4	3.4	4.6	5.8	9.3	10.7	13.2	10.1
DEPARTMENT OF LABOR, TOTAL	22.8	23.1	19.9	23.8	25.4	28.5	29.6	97.8	137.0	164.0	192.8
DEPARTMENT OF STATE, TOTAL	30.1	26.6	26.2	22.5	27.9	39.4	61.4	85.2	3.2	2.8	2.7
AGENCY FOR INTERNAT'L DEVMNT	29.7	26.0	24.7	21.1	26.7	37.8	59.1	82.4	N/A	N/A	N/A
OTHER STATE	.4	.6	1.5	1.5	1.2	1.6	2.3	2.8	3.2	2.8	2.7
DEPT OF TRANSPORTATION, TOTAL	497.2	310.5	310.6	369.8	311.6	294.5	354.6	408.3	370.1	362.2	378.3
FEDERAL AVIATION ADMIN	346.3	100.9	79.5	125.0	105.6	98.1	103.4	110.5	110.5	103.1	115.1
FEDERAL HIGHWAY ADMIN	26.8	20.7	23.6	40.8	44.7	28.9	55.5	51.7	52.9	55.2	55.5
FEDERAL RAILROAD ADMIN	21.6	26.3	35.5	33.5	32.4	50.4	41.9	53.9	44.2	48.1	45.8
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	26.7	50.0	54.6	53.6	34.0	31.4	47.0	66.3	56.6	59.0	62.5
URBAN MASS TRANS ADMIN	39.0	58.8	66.2	65.6	47.7	47.5	59.9	69.6	58.0	47.9	48.9
OTHER TRANSPORTATION	36.8	53.9	51.3	51.3	47.2	38.2	46.9	56.3	47.8	48.9	50.6

CONTINUED ON NEXT PAGE

TABLE C-112. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
DEPT OF THE TREASURY, TOTAL	0.8	1.3	1.C	1.1	1.7	3.7	4.8	9.9	9.5	12.5	11.9
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	1,302.9	1,297.7	1,363.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	1,488.9	2,047.3	2,463.8	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	136.7	122.4	180.6	169.2	257.7	259.1	295.5	384.6	410.1	414.8	444.9
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	106.5	118.9	131.4
NAT'L AERONAUTICS & SPACE ADMIN .	3,257.9	3,157.2	3,060.9	3,002.2	3,064.4	3,446.8	3,703.4	3,875.4	4,411.0	5,113.7	5,397.7
NATIONAL SCIENCE FOUNDATION	336.9	454.8	479.9	556.4	595.0	609.3	697.0	748.8	807.9	904.3	994.8
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	196.3	217.9
OFFICE OF ECONOMIC OPPORTUNITY ..	134.0	92.7	87.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	62.9	69.1	74.3	84.8	94.8	97.7	107.0	114.0	127.0	130.7	133.7
ALL OTHER AGENCIES	77.3	43.5	62.3	87.8	94.3	84.6	109.0	129.8	142.1	185.8	233.5

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-113. FEDERAL OBLIGATIONS FOR R&D PLANT, BY AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL AGENCIES	611.2	602.1	774.3	766.3	820.7	836.7	1,367.2	1,295.7	1,475.5	2,024.7	1,977.6
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	5.1	7.8	2.9	8.8	7.8	16.1	12.9	24.7	22.6	41.3	37.3
DEPARTMENT OF COMMERCE, TOTAL ...	9.2	7.4	7.9	11.6	9.5	6.6	7.1	4.1	2.4	4.7	1.4
DEPARTMENT OF DEFENSE, TOTAL	153.7	174.7	146.4	169.1	167.1	143.4	445.6	232.6	270.2	368.7	445.1
DEPARTMENT OF THE ARMY	43.6	39.5	17.1	32.1	23.9	12.3	16.3	7.6	3.8	17.3	16.5
DEPARTMENT OF THE NAVY	28.0	40.4	35.7	54.0	62.7	45.8	61.2	48.3	68.1	71.5	93.3
DEPARTMENT OF THE AIR FORCE ...	49.7	70.8	70.6	67.7	59.6	73.0	350.0	160.1	167.5	255.8	287.5
DEFENSE AGENCIES	32.3	24.1	23.C	15.3	20.9	12.3	18.1	16.6	30.8	24.1	47.8
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	561.0	690.7	844.4	1,284.3	1,212.4
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	17.4	55.0	41.6	4C.9	39.1	33.1	132.6	74.3	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.5	41.8	54.4
DEPT OF THE INTERIOR, TOTAL	8.5	13.8	22.0	2.1	3.9	5.9	5.C	15.C	5.0	11.3	9.2
DEPARTMENT OF STATE, TOTAL	8.9	2.6	.4	.4	-	5.1	16.2	.2	-	-	-
DEPT OF TRANSPORTATION, TOTAL ...	10.8	25.8	38.2	13.4	13.3	14.2	22.5	14.1	22.6	25.8	17.9
DEPT OF THE TREASURY, TOTAL	*	*	*	*	*	.1	.1	*	*	*	.1
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	312.2	246.7	349.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	392.7	392.6	438.8	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	1.1	.7	24.5	1.2	2.1	6.3	2.1	4.6	2.4	2.0	2.5
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.4	7.4	10.2
NAT'L AERONAUTICS & SPACE ADMIN .	40.2	45.2	69.3	98.4	142.7	82.1	118.1	162.3	147.5	156.1	120.0
NATIONAL SCIENCE FOUNDATION	27.9	18.6	57.1	11.7	23.1	52.6	27.1	39.7	30.2	19.3	16.9
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	3.8	3.0	9.6	7.1	6.9	8.6	7.7	10.3
VETERANS ADMINISTRATION	15.0	2.2	10.3	2.1	2.2	11.8	5.9	4.1	5.1	11.0	16.8
ALL OTHER AGENCIES	1.3	1.9	4.6	1C.2	14.4	10.8	3.9	22.4	54.4	43.2	23.1

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-114. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY CHARACTER OF WORK, AND R&D PLANT: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

FISCAL YEARS	TOTAL	RESEARCH		DEVELOPMENT	R&D PLANT
		BASIC	APPLIED		
1971	16,154.0	1,945.6	3,303.2	10,294.0	611.2
1972	17,098.2	2,164.6	3,426.2	10,905.4	602.1
1973	17,574.8	2,192.8	3,453.5	11,154.1	774.3
1974	18,176.8	2,339.1	3,876.7	11,194.7	766.3
1975	19,860.0	2,535.8	4,305.5	12,197.9	820.7
1976	21,616.8	2,700.3	4,915.3	13,164.5	836.7
1977	25,350.7	3,191.1	5,412.6	15,379.8	1,367.2
1978	27,683.7	3,619.3	6,105.3	16,663.4	1,295.7
1979	30,453.8	4,097.3	6,575.9	18,305.2	1,475.5
1980 (ESTIMATED)	33,902.9	4,508.6	7,294.5	20,075.1	2,024.7
1981 (ESTIMATED)	37,469.7	4,901.9	8,006.4	22,583.8	1,977.6

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-115. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL AGENCIES	5,248.8	5,590.8	5,646.3	6,215.9	6,841.3	7,615.6	8,603.7	9,724.6	10,673.2	11,803.1	12,908.3
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	292.2	337.2	354.1	365.1	401.9	442.2	524.0	594.5	631.9	697.4	742.3
ECON, STAT & COOPERATIVES SVC .	N/A	N/A	N/A	N/A	N/A	N/A	29.7	32.7	35.5	42.1	44.6
ECONOMIC RESEARCH SVC	15.5	16.0	16.9	18.1	21.3	24.0	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	1.0	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC ...	.5	.5	.5	.4	1.0	1.6	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	45.1	52.9	56.1	62.3	73.3	74.5	86.1	100.7	102.5	106.6	118.0
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	408.2	461.1	493.5	548.1	570.9
AGRICULTURAL RESEARCH	161.8	183.9	189.7	193.4	204.1	227.6	281.0	303.7	320.9	362.1	376.3
COOPERATIVE RESEARCH	67.8	82.6	89.4	89.4	101.1	113.4	127.3	157.4	172.6	186.1	194.6
TECHNICAL INFO SYSTEMS	.4	.2	.3	.1	*	*	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	-	.4	.6	.6
DEPARTMENT OF COMMERCE, TOTAL ...	113.7	143.4	130.2	129.2	144.4	155.7	176.1	192.8	219.5	244.5	269.7
NATIONAL BUREAU OF STANDARDS ..	28.7	29.8	31.0	32.7	34.7	37.5	45.0	48.5	51.8	59.4	62.6
NAT'L OCEANIC & ATMOS ADMIN ...	65.6	90.2	89.1	87.1	99.7	104.9	115.8	127.9	142.7	159.9	183.3
OTHER COMMERCE	19.5	23.3	10.0	9.4	10.0	13.3	15.4	16.3	25.0	25.3	23.8
DEPARTMENT OF DEFENSE, TOTAL	1,434.6	1,547.4	1,500.7	1,474.6	1,542.2	1,523.3	1,804.9	1,941.2	2,151.6	2,434.5	2,960.3
DEPARTMENT OF THE ARMY	339.1	351.0	361.9	348.7	335.7	306.4	433.4	414.3	462.2	534.0	713.2
DEPARTMENT OF THE NAVY	273.2	303.2	284.1	292.9	302.7	314.9	378.0	402.0	432.8	496.0	599.1
DEPARTMENT OF THE AIR FORCE ...	498.8	508.9	523.0	508.0	571.5	557.1	598.8	685.7	750.7	808.3	897.1
DEFENSE AGENCIES	320.5	380.4	328.5	322.2	330.6	344.1	393.4	431.7	505.9	596.2	750.9
DEFENSE CIVIL PREPAREDNESS AGENCY	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	93.4	89.5	100.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	891.3	1,102.2	1,131.8	1,269.7	1,425.0
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	1,231.9	1,432.0	1,444.2	1,846.7	1,924.8	2,150.7	2,414.3	2,740.7	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	122.2	155.6	139.4	136.6	152.0	178.8	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN .	179.2	200.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	N/A	N/A	16.1	9.5	4.1	10.8	27.1	34.6	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH .	913.5	1,099.4	1,132.1	1,489.6	1,604.2	1,767.7	1,968.7	2,232.6	N/A	N/A	N/A
OFFICE OF EDUCATION	62.8	36.0	6.6	6.4	5.3	21.4	11.9	13.3	N/A	N/A	N/A
OTHER HEW	76.5	96.2	167.2	185.5	171.9	214.2	254.6	281.4	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,015.7	3,282.5	3,431.1
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	213.5	234.6	260.4
NATIONAL INSTITUTES OF HEALTH .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2,530.1	2,743.8	2,856.0
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	272.0	304.1	314.7
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	10.5	12.7	18.4	33.8	33.5	36.9	32.7	30.5	23.8	23.4	25.8
DEPT OF THE INTERIOR, TOTAL	136.9	147.3	160.2	143.5	234.1	259.5	255.9	283.5	339.5	362.7	366.0
BUREAU OF MINES	38.7	40.7	41.5	30.5	52.9	73.3	52.3	57.0	79.1	79.8	77.4
GEOLOGICAL SURVEY	41.9	51.5	62.9	66.2	106.6	110.3	117.5	133.7	145.1	152.7	151.5
OTHER INTERIOR	56.2	55.1	55.8	46.7	74.5	75.8	86.2	92.8	115.3	130.2	137.1
DEPARTMENT OF JUSTICE, TOTAL	6.5	12.4	7.0	18.6	18.9	18.3	17.6	45.7	28.8	31.3	29.9
LAW ENFORCEMENT ASSISTANCE ADMIN	5.0	11.2	5.5	16.9	17.9	17.7	16.4	43.3	N/A	N/A	N/A
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.9	27.6	26.2
OTHER JUSTICE	1.5	1.2	1.6	1.7	1.0	.6	1.2	2.4	2.9	3.7	3.7
DEPARTMENT OF LABOR, TOTAL	13.6	13.3	13.3	17.2	15.3	18.0	18.7	25.7	42.1	45.2	51.7
DEPARTMENT OF STATE, TOTAL	29.0	25.7	24.6	17.8	22.5	25.1	38.3	49.1	2.7	2.4	2.3
AGENCY FOR INTERNAT'L DEVMNT ..	28.6	25.2	23.9	16.8	21.7	24.0	36.2	46.6	N/A	N/A	N/A
OTHER STATE	.4	.6	.8	1.1	.7	1.1	2.1	2.5	2.7	2.4	2.3
DEPT OF TRANSPORTATION, TOTAL ...	97.0	98.2	77.2	61.8	53.8	31.1	51.8	66.5	67.0	70.4	84.1
FEDERAL AVIATION ADMIN	17.3	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5	7.7	12.2
FEDERAL HIGHWAY ADMIN	23.9	20.3	1.8	3.3	3.4	1.9	5.3	4.9	4.4	5.1	4.8
FEDERAL RAILROAD ADMIN	18.0	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	7.8
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	14.7	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0	33.3	36.9
URBAN MASS TRANS ADMIN	9.7	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1	1.1	1.2
OTHER TRANSPORTATION	13.4	17.9	14.2	21.9	18.7	6.5	6.7	6.5	16.5	15.2	21.2
DEPT OF THE TREASURY, TOTAL	.4	.5	.4	.5	.4	1.5	2.1	4.1	4.7	4.9	5.2

CONTINUED ON NEXT PAGE

TABLE C-115. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	429.0	417.1	424.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	464.7	593.4	746.5	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	53.8	51.1	74.3	96.3	141.7	155.4	205.3	252.7	259.0	250.5	235.2
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.9	74.6	90.0
NAT'L AERONAUTICS & SPACE ADMIN .	922.7	764.6	793.9	845.7	935.1	1,222.8	1,206.1	1,345.2	1,451.2	1,614.7	1,630.9
NATIONAL SCIENCE FOUNDATION	318.3	427.3	464.6	520.3	570.0	595.8	688.3	743.5	800.3	895.3	933.8
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	196.3	217.9
OFFICE OF ECONOMIC OPPORTUNITY ..	63.1	55.3	32.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	62.1	67.1	69.7	78.7	87.1	85.1	92.3	99.4	111.4	112.5	115.4
ALL OTHER AGENCIES	33.6	38.4	57.0	59.1	57.9	59.1	71.7	73.4	83.4	92.9	121.6

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-116. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL AGENCIES	1,945.6	2,164.6	2,192.8	2,339.1	2,535.8	2,700.3	3,191.1	3,619.3	4,097.3	4,508.6	4,901.9
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	118.4	137.3	142.7	145.6	154.2	171.4	204.5	242.7	256.4	288.0	323.6
ECON, STAT & COOPERATIVES SVC .	N/A	N/A	N/A	N/A	N/A	N/A	3.8	3.9	6.4	7.6	8.0
ECONOMIC RESEARCH SVC	4.7	4.6	4.8	5.4	3.2	3.6	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.2	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC ...	.1	.1	.1	*	.3	.4	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	15.7	18.3	19.3	20.7	21.1	22.6	26.7	30.8	31.4	33.9	37.5
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	174.0	207.9	218.6	246.5	272.7
AGRICULTURAL RESEARCH	72.1	82.9	84.6	85.5	91.2	101.7	125.6	142.4	148.2	170.5	187.1
COOPERATIVE RESEARCH	25.8	31.4	34.0	34.0	38.4	43.1	48.4	65.6	70.5	76.0	85.6
DEPARTMENT OF COMMERCE, TOTAL ...	41.8	44.0	16.3	18.2	20.1	22.3	23.2	23.9	24.8	29.0	32.2
NATIONAL BUREAU OF STANDARDS ..	14.5	4.9	4.5	6.2	5.4	5.8	6.9	5.9	8.8	12.5	14.8
NAT'L OCEANIC & ATMOS ADMIN ...	26.1	36.1	9.7	10.5	12.0	11.3	10.9	12.1	12.9	13.5	14.7
OTHER COMMERCE	1.2	3.1	2.2	1.5	2.8	5.2	5.4	5.9	3.1	3.0	2.7
DEPARTMENT OF DEFENSE, TOTAL	261.5	270.3	257.8	243.9	235.5	248.4	294.8	319.1	363.3	430.3	515.4
DEPARTMENT OF THE ARMY	46.5	55.8	44.7	48.0	37.3	39.0	58.6	54.5	59.5	73.9	107.8
DEPARTMENT OF THE NAVY	85.8	92.6	83.6	83.3	88.1	95.9	115.3	130.3	147.7	167.0	194.8
DEPARTMENT OF THE AIR FORCE ...	84.7	86.6	92.3	77.7	79.4	81.6	85.3	95.1	96.8	110.0	125.3
DEFENSE AGENCIES	44.5	35.4	37.2	34.9	30.7	31.9	35.6	39.1	59.3	79.4	87.5
DEPARTMENT OF EDUCATION, TOTAL ..	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20.6	22.0	26.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	389.5	440.5	463.0	520.3	581.8
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	574.5	665.4	667.3	850.1	903.7	986.2	1,119.5	1,292.3	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	52.6	53.3	66.2	52.6	62.7	79.9	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN .	63.6	75.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION ..	N/A	N/A	11.4	4.8	1.9	5.1	11.9	18.3	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH .	503.7	585.7	593.0	775.3	828.5	920.3	1,032.8	1,181.1	N/A	N/A	N/A
OFFICE OF EDUCATION	6.8	3.7	.1	.2	-	-	-	-	N/A	N/A	N/A
OTHER HEW	.4	.6	10.4	16.5	7.1	8.2	12.2	13.1	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,576.0	1,698.6	1,788.1
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	94.6	101.9	111.5
NATIONAL INSTITUTES OF HEALTH .	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,463.7	1,579.5	1,657.1
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	17.7	17.2	19.5
DEPT OF THE INTERIOR, TOTAL	41.7	43.1	48.7	48.7	54.9	54.3	63.6	65.9	72.5	76.1	77.0
BUREAU OF MINES	6.5	7.8	6.9	5.6	1.9	.8	4.0	8.6	13.7	14.7	15.8
GEOLOGICAL SURVEY	20.6	21.5	27.7	27.2	38.6	39.5	40.3	46.3	49.0	48.9	50.2
OTHER INTERIOR	14.5	13.7	14.1	15.9	14.4	14.0	19.3	11.0	9.8	12.5	11.0
DEPARTMENT OF JUSTICE, TOTAL	-	-	2.1	2.1	9.5	4.5	5.1	14.7	7.9	8.4	8.0
LAW ENFORCEMENT ASSISTANCE ADMIN	-	-	2.1	2.1	9.5	4.5	5.1	14.7	N/A	N/A	N/A
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.9	8.4	8.0
DEPARTMENT OF LABOR, TOTAL	2.5	1.1	1.3	1.2	.9	1.0	.7	3.7	2.3	3.2	2.7
DEPARTMENT OF STATE, TOTAL	-	-	-	-	1.5	-	-	-	*	-	-
AGENCY FOR INTERNAT'L DEVMNT ..	N/A	N/A	N/A	N/A	1.5	N/A	N/A	N/A	N/A	N/A	N/A
OTHER STATE	-	-	-	-	-	-	-	-	*	-	-
DEPT OF TRANSPORTATION, TOTAL ...	.3	.5	.2	.3	.1	-	-	-	-	-	-
FEDERAL HIGHWAY ADMIN	.1	.2	-	-	-	-	-	-	-	-	-
FEDERAL RAILROAD ADMIN	*	-	-	-	-	-	-	-	-	-	-
OTHER TRANSPORTATION	.2	.4	.2	.3	.1	-	-	-	-	-	-
DEPT OF THE TREASURY, TOTAL	-	-	-	-	-	-	-	-	.2	1.8	2.0
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	276.9	268.3	275.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	269.5	312.8	345.8	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	6.1	6.1	9.0	9.5	17.4	13.7	8.3	6.0	10.1	13.5	18.5
NAT'L AERONAUTICS & SPACE ADMIN .	327.3	331.6	350.3	305.9	309.3	293.2	413.8	479.7	512.8	537.8	544.7
NATIONAL SCIENCE FOUNDATION	272.6	367.7	392.4	415.2	486.0	523.6	624.9	678.0	733.3	820.9	906.3
OFFICE OF ECONOMIC OPPORTUNITY ..	3.2	4.2	.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	3.1	3.2	3.2	3.6	3.9	8.9	9.1	8.9	9.5	10.2	10.2
ALL OTHER AGENCIES	15.6	21.8	25.3	25.5	26.1	27.0	34.2	43.9	44.6	48.4	65.2

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-117. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL AGENCIES	3,303.2	3,426.2	3,453.5	3,876.7	4,305.5	4,915.3	5,412.6	6,105.3	6,575.9	7,294.5	8,036.4
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	173.7	199.9	211.4	219.5	247.8	270.9	319.6	351.8	375.5	409.5	419.8
ECON, STAT & COOPERATIVES SVC	N/A	N/A	N/A	N/A	N/A	N/A	25.9	28.8	29.1	34.5	36.6
ECONOMIC RESEARCH SVC	10.9	11.4	12.2	12.7	18.1	20.4	N/A	N/A	N/A	N/A	N/A
FARMER COOPERATIVE SVC	.8	1.1	1.2	1.4	1.2	1.2	N/A	N/A	N/A	N/A	N/A
STATISTICAL REPORTING SVC	.4	.4	.4	.4	.7	1.1	N/A	N/A	N/A	N/A	N/A
FOREST SERVICE	29.5	34.6	36.8	41.6	52.2	51.9	59.4	69.8	71.1	72.7	80.5
SCIENCE & EDUCATION ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	234.3	253.2	274.8	301.6	298.2
AGRICULTURAL RESEARCH	89.8	101.0	105.1	107.9	112.9	125.9	155.4	161.3	172.7	191.6	189.2
COOPERATIVE RESEARCH	42.0	51.2	55.4	55.4	62.7	70.3	78.9	91.9	102.1	110.0	109.1
TECHNICAL INFO SYSTEMS	.4	.2	.3	.1	*	*	-	-	-	-	-
OTHER AGRICULTURE	-	-	-	-	-	-	-	-	.4	.6	.6
DEPARTMENT OF COMMERCE, TOTAL	71.9	99.4	113.8	111.0	124.4	133.4	153.0	168.9	194.7	215.6	237.5
NATIONAL BUREAU OF STANDARDS	14.2	25.0	26.6	26.5	29.4	31.7	38.0	42.6	43.0	46.9	47.8
NAT'L OCEANIC & ATMOS ADMIN	39.5	54.1	79.5	76.6	87.8	93.6	104.9	115.9	129.8	146.4	168.6
OTHER COMMERCE	18.2	20.2	7.8	7.9	7.2	8.1	10.0	10.4	21.9	22.3	21.1
DEPARTMENT OF DEFENSE, TOTAL	1,173.0	1,277.0	1,242.9	1,230.8	1,306.7	1,274.8	1,510.1	1,622.1	1,788.3	2,004.2	2,444.9
DEPARTMENT OF THE ARMY	292.6	295.2	317.3	300.7	298.4	267.4	374.9	359.8	402.7	460.1	605.4
DEPARTMENT OF THE NAVY	187.4	210.6	200.5	209.7	214.6	219.0	262.6	271.7	285.1	329.0	404.3
DEPARTMENT OF THE AIR FORCE	414.1	422.3	430.7	430.3	492.1	475.5	513.5	590.6	653.9	698.3	771.8
DEFENSE AGENCIES	275.9	345.0	291.2	287.3	299.9	312.2	357.8	392.5	446.6	516.7	663.4
DEFENSE CIVIL PREPAREDNESS AGENCY	3.0	4.0	3.2	2.7	1.7	.7	1.3	7.5	N/A	N/A	N/A
DEPARTMENT OF EDUCATION, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	72.8	67.4	74.0
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	501.8	661.7	668.9	749.4	843.1
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	657.4	766.7	776.9	996.6	1,021.1	1,164.6	1,294.8	1,448.4	N/A	N/A	N/A
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	69.6	102.3	73.2	84.1	89.3	98.8	N/A	N/A	N/A
HLTH SVCS & MENTAL HLTH ADMIN	115.6	125.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAT'L INSTITUTE OF EDUCATION	N/A	N/A	4.7	4.7	2.2	5.7	15.2	16.3	N/A	N/A	N/A
NATIONAL INSTITUTES OF HEALTH	409.8	513.7	539.1	714.3	775.7	847.4	935.9	1,051.5	N/A	N/A	N/A
OFFICE OF EDUCATION	56.0	32.3	6.6	6.3	5.3	21.4	11.9	13.3	N/A	N/A	N/A
OTHER HEW	76.1	95.5	156.8	169.0	164.8	206.0	242.5	268.4	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,439.7	1,583.9	1,643.0
ALCOHOL, DRUG ABUSE & MENTAL HLTH ADMIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118.4	132.7	148.9
NATIONAL INSTITUTES OF HEALTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1,066.9	1,164.3	1,198.9
OTHER HHS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	254.3	286.9	295.2
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	10.5	12.7	18.4	33.0	33.5	36.9	32.7	30.5	23.8	23.4	25.8
DEPT OF THE INTERIOR, TOTAL	95.1	104.3	111.4	94.8	179.1	205.1	192.4	217.6	266.9	286.6	289.0
BUREAU OF MINES	32.2	32.8	34.6	24.9	51.0	72.5	48.3	48.4	65.4	65.1	61.6
GEOLOGICAL SURVEY	21.3	30.1	35.1	39.0	68.0	70.8	77.2	87.4	96.1	103.7	101.3
OTHER INTERIOR	41.6	41.4	41.7	30.9	60.1	61.8	66.9	81.8	105.5	117.7	126.1
DEPARTMENT OF JUSTICE, TOTAL	6.5	12.4	4.9	16.5	9.4	13.8	12.5	31.0	20.9	22.9	21.9
LAW ENFORCEMENT ASSISTANCE ADMIN	5.0	11.2	3.4	14.8	8.5	13.2	11.3	28.6	N/A	N/A	N/A
OFF OF JUSTICE ASSIST, RSCH, & STATISTICS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.0	19.2	18.2
OTHER JUSTICE	1.5	1.2	1.6	1.7	1.0	.6	1.2	2.4	2.9	3.7	3.7
DEPARTMENT OF LABOR, TOTAL	11.1	12.2	12.0	16.0	14.4	17.0	18.0	22.0	39.8	41.9	48.9
DEPARTMENT OF STATE, TOTAL	29.0	25.7	24.6	17.8	21.0	25.1	38.3	49.1	2.6	2.4	2.3
AGENCY FOR INTERNAT'L DEVMNT	28.6	25.2	23.9	16.8	20.2	24.0	36.2	46.6	N/A	N/A	N/A
OTHER STATE	.4	.6	.8	1.1	.7	1.1	2.1	2.5	2.6	2.4	2.3
DEPT OF TRANSPORTATION, TOTAL	96.7	97.6	77.1	61.5	53.8	31.1	51.8	66.5	67.0	70.4	84.1
FEDERAL AVIATION ADMIN	17.3	22.2	17.8	13.9	14.1	3.6	4.7	6.8	7.5	7.7	12.2
FEDERAL HIGHWAY ADMIN	23.7	20.1	1.8	3.3	3.4	1.9	5.3	4.9	4.4	5.1	4.8
FEDERAL RAILROAD ADMIN	17.9	9.3	15.4	1.6	2.7	8.6	6.6	9.2	7.5	7.9	7.8
NAT'L HIGHWAY TRAFFIC SAFETY ADMIN	14.7	20.7	21.7	14.9	12.0	9.9	27.5	38.0	30.0	33.3	36.9
URBAN MASS TRANS ADMIN	9.7	7.8	6.3	6.2	2.9	.6	1.0	1.1	1.1	1.1	1.2
OTHER TRANSPORTATION	13.2	17.5	14.1	21.6	18.6	6.5	6.7	6.5	16.5	15.2	21.2
DEPT OF THE TREASURY, TOTAL	.4	.5	.4	.5	.4	1.5	2.1	4.1	4.5	3.1	3.2

CONTINUED ON NEXT PAGE

TABLE C-117. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY SELECTED AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

- CONTINUED

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	 1981
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	152.1	148.8	149.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	195.2	280.7	400.7	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	47.7	45.3	65.3	86.8	124.3	141.7	197.0	246.7	248.9	245.0	266.7
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	66.9	74.6	93.0
NAT'L AERONAUTICS & SPACE ADMIN .	595.4	433.0	443.6	539.8	625.8	929.6	792.3	865.4	938.4	1,076.8	1,056.2
NATIONAL SCIENCE FOUNDATION	45.7	59.6	71.5	105.0	84.0	72.1	63.4	65.5	66.8	74.5	77.5
NUCLEAR REGULATORY COMMISSION ...	N/A	N/A	N/A	42.3	64.2	88.4	112.3	133.9	148.8	196.3	217.9
OFFICE OF ECONOMIC OPPORTUNITY ..	59.9	51.1	31.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	59.0	63.9	66.5	75.2	83.3	76.2	83.2	90.5	101.9	102.2	105.1
ALL OTHER AGENCIES	18.0	16.6	31.7	33.6	31.8	32.1	37.5	29.5	38.8	44.5	56.5

* INDICATES AMOUNT LESS THAN $50,000.

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-118. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY SELECTED AGENCY: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

AGENCY AND SUBDIVISION	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	 1981
TOTAL, ALL AGENCIES	10,294.0	10,905.4	11,154.1	11,194.7	12,197.9	13,164.5	15,379.8	16,663.4	18,305.2	20,075.1	22,583.8
DEPARTMENTS											
DEPT OF AGRICULTURE, TOTAL	12.8	12.4	12.4	13.6	18.1	20.2	22.9	26.8	31.1	34.3	35.2
DEPARTMENT OF COMMERCE, TOTAL ...	30.0	43.9	60.4	51.4	71.0	73.1	68.6	90.9	89.9	93.8	102.9
DEPARTMENT OF DEFENSE, TOTAL	6,074.4	6,770.8	6,903.5	6,945.7	7,470.3	8,131.5	9,158.5	9,612.4	10,354.6	11,353.2	13,644.1
DEPARTMENT OF THE ARMY	1,343.2	1,713.2	1,651.6	1,661.1	1,561.1	1,707.2	2,008.5	2,134.6	2,306.5	2,417.8	2,650.7
DEPARTMENT OF THE NAVY	2,010.5	2,216.2	2,370.7	2,425.6	2,797.4	3,013.1	3,439.4	3,596.4	3,902.2	4,313.6	4,292.2
DEPARTMENT OF THE AIR FORCE ...	2,614.7	2,745.4	2,750.5	2,708.2	2,942.0	3,169.5	3,432.3	3,576.6	3,774.9	4,213.5	6,162.8
DEFENSE AGENCIES	106.0	96.0	105.6	126.6	145.9	217.5	248.0	276.2	341.7	375.6	496.2
DIRECTOR OF TEST & EVALUATION .	N/A	N/A	25.1	24.2	23.9	24.1	30.2	28.6	29.3	32.6	42.2
DEPARTMENT OF ENERGY, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	2,645.0	3,142.6	3,506.9	3,680.0	3,569.8
DEPT OF HLTH, EDUC, & WELFARE, TOTAL	244.2	319.1	393.4	443.4	472.6	432.8	409.0	466.5	N/A	N/A	N/A
DEPT OF HLTH & HUMAN SRVCS, TOTAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	439.2	494.4	476.4
DEPT OF HOUSING & URBAN DEVELOPMENT, TOTAL	37.2	36.4	39.5	31.0	28.5	30.6	19.4	39.2	44.1	38.1	38.3
DEPT OF THE INTERIOR, TOTAL	54.7	71.4	83.6	48.9	69.3	73.7	58.7	75.5	66.3	62.9	59.0
DEPARTMENT OF JUSTICE, TOTAL	3.8	11.0	26.2	16.1	25.4	15.5	10.1	15.2	14.1	16.3	12.7
DEPARTMENT OF LABOR, TOTAL	9.2	9.9	6.6	6.6	10.1	10.5	10.8	72.1	94.9	118.8	141.1
DEPARTMENT OF STATE, TOTAL	1.1	.9	1.6	4.7	5.4	14.2	23.1	36.1	.5	.4	.4
DEPT OF TRANSPORTATION, TOTAL ...	400.2	212.3	233.4	308.0	257.7	263.4	302.8	341.8	303.1	291.8	294.2
DEPT OF THE TREASURY, TOTAL	.4	.8	.6	.7	1.3	2.3	2.7	5.8	4.8	7.6	6.7
OTHER AGENCIES											
ATOMIC ENERGY COMMISSION	873.9	880.5	938.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ENERGY RSCH & DEVELOPMENT ADMIN .	N/A	N/A	N/A	1,024.2	1,453.9	1,717.3	N/A	N/A	N/A	N/A	N/A
ENVIRONMENTAL PROTECTION AGENCY .	82.9	71.3	106.3	72.9	115.9	103.7	90.2	132.0	151.1	156.3	159.7
INTERNAT'L DEV COOPERATION AGENCY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	39.6	44.3	41.3
NAT'L AERONAUTICS & SPACE ADMIN .	2,335.2	2,392.6	2,267.0	2,156.5	2,129.3	2,224.0	2,497.3	2,530.2	2,959.8	3,499.0	3,796.8
NATIONAL SCIENCE FOUNDATION	18.7	27.6	15.9	36.2	25.0	13.5	8.7	5.3	7.9	9.0	11.0
OFFICE OF ECONOMIC OPPORTUNITY ..	70.8	37.4	55.9	-	-	N/A	N/A	N/A	N/A	N/A	N/A
VETERANS ADMINISTRATION	.8	2.0	4.5	6.1	7.7	12.6	14.7	14.6	15.6	18.3	18.3
ALL OTHER AGENCIES	43.7	5.2	5.2	28.7	36.4	25.5	37.3	56.5	58.7	92.9	111.8

NOTE: N/A (NOT APPLICABLE) INDICATES THAT THE AGENCY OR AGENCY SUBDIVISION DID NOT EXIST AS SUCH IN THAT YEAR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-119. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

PERFORMER	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
TOTAL	15,542.3	16,496.2	16,800.4	17,410.5	19,039.2	20,780.1	23,983.5	26,388.0	28,379.4	31,873.2	35,247.2
FEDERAL INTRAMURAL 1/	4,205.0	4,542.1	4,709.1	4,861.1	5,310.4	5,688.0	6,053.7	6,855.8	7,496.5	8,051.7	8,765.2
INDUSTRIAL FIRMS 2/	8,187.9	8,293.9	9,367.2	8,392.0	9,171.6	10,246.8	12,298.0	13,128.3	14,218.4	15,946.7	18,036.9
UNIVERSITIES AND COLLEGES	1,544.2	1,902.3	1,915.5	2,214.5	2,408.4	2,541.5	2,905.4	3,364.8	3,288.1	4,207.5	4,555.7
FFRDCS ADMINISTERED BY UNIVERSITIES	728.9	760.5	725.3	789.1	935.1	1,061.1	1,326.8	1,325.6	1,511.0	1,621.9	1,739.4
OTHER NONPROFIT INSTITUTIONS 2/	672.8	731.1	762.0	874.3	924.6	939.5	1,073.9	1,321.9	1,399.6	1,479.3	1,560.4
ALL OTHER PERFORMERS	204.1	266.3	321.2	279.4	289.2	304.3	326.2	391.6	464.8	571.4	589.6

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-120. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY PERFORMER: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

PERFORMER	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
TOTAL	5,248.8	5,590.8	5,646.3	6,215.9	6,841.3	7,615.6	8,603.7	9,724.6	10,673.2	11,803.1	12,908.3
FEDERAL INTRAMURAL 1/	1,895.1	1,938.3	2,057.0	2,220.7	2,439.0	2,782.6	2,928.9	3,190.7	3,450.8	3,712.5	3,977.7
INDUSTRIAL FIRMS 2/	1,079.1	1,069.3	1,050.6	1,058.2	1,274.0	1,369.7	1,666.0	2,027.9	2,172.2	2,541.5	2,893.1
UNIVERSITIES AND COLLEGES	1,430.9	1,642.2	1,690.6	1,960.0	2,083.1	2,253.2	2,589.3	2,932.6	3,340.4	3,666.8	3,989.6
FFRDCS ADMINISTERED BY UNIVERSITIES	358.9	398.4	355.2	374.0	425.5	548.3	670.3	714.9	800.6	882.7	987.1
OTHER NONPROFIT INSTITUTIONS 2/	337.3	404.3	368.7	467.9	463.5	492.0	573.7	659.9	692.3	738.8	780.4
ALL OTHER PERFORMERS	147.5	138.3	124.3	135.1	156.2	169.8	175.5	198.8	216.9	263.6	280.5

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-121. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY PERFORMER: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

PERFORMER	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
TOTAL	1,945.6	2,164.6	2,192.8	2,339.1	2,535.8	2,700.3	3,191.1	3,619.3	4,097.3	4,508.6	4,901.9
FEDERAL INTRAMURAL 1/	544.4	584.2	586.0	664.0	700.8	738.1	866.6	972.7	1,026.2	1,096.4	1,172.4
INDUSTRIAL FIRMS 2/	188.6	175.9	209.1	147.7	157.1	182.0	252.4	303.2	333.4	371.7	403.0
UNIVERSITIES AND COLLEGES	872.9	1,017.7	1,039.1	1,137.3	1,251.0	1,333.7	1,544.4	1,748.6	2,065.7	2,288.2	2,521.5
FFRDCS ADMINISTERED BY UNIVERSITIES	227.7	254.5	229.0	223.1	257.5	284.9	324.1	356.8	393.6	444.5	480.1
OTHER NONPROFIT INSTITUTIONS 2/	86.2	103.2	100.2	132.0	141.0	132.0	167.5	196.3	239.2	257.3	269.7
ALL OTHER PERFORMERS	25.9	29.1	29.3	35.2	28.3	29.5	36.0	41.7	39.3	50.5	55.1

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-122. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY PERFORMER: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

PERFORMER	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
TOTAL	3,303.2	3,426.2	3,453.5	3,876.7	4,305.5	4,915.3	5,412.6	6,105.3	6,575.9	7,294.5	8,006.4
FEDERAL INTRAMURAL 1/.............	1,350.7	1,354.1	1,471.0	1,556.7	1,738.1	2,044.5	2,062.3	2,218.0	2,424.7	2,616.1	2,805.3
INDUSTRIAL FIRMS 2/...............	890.6	893.5	841.5	910.6	1,116.9	1,187.7	1,413.6	1,724.7	1,939.8	2,159.3	2,490.1
UNIVERSITIES AND COLLEGES	558.0	624.3	651.5	822.7	832.1	919.5	1,044.8	1,183.9	1,274.7	1,378.6	1,453.1
FFRDCS ADMINISTERED BY UNIVERSITIES	131.2	144.0	126.2	150.9	168.0	263.4	346.2	358.1	407.3	433.2	507.0
OTHER NONPROFIT INSTITUTIONS 2/..	251.1	301.0	268.5	336.0	322.4	360.0	406.2	463.5	453.0	481.5	510.6
ALL OTHER PERFORMERS	121.6	109.2	94.9	99.9	127.9	140.2	139.5	157.1	177.6	210.2	225.3

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-123. FEDERAL OBLIGATIONS FOR DEVELOPMENT, BY PERFORMER: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

PERFORMER	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES 1980	ESTIMATES 1981
TOTAL	10,294.0	10,965.4	11,154.1	11,194.7	12,197.9	13,164.5	15,379.8	16,663.4	18,305.2	20,075.1	22,583.8
FEDERAL INTRAMURAL 1/.............	2,309.9	2,603.8	2,652.2	2,640.5	2,871.4	2,905.3	3,124.3	3,665.1	4,045.7	4,339.1	4,987.5
INDUSTRIAL FIRMS 2/...............	7,008.8	7,224.5	7,316.6	7,333.7	7,897.6	8,877.0	10,632.0	11,100.4	12,046.2	13,405.1	15,193.7
UNIVERSITIES AND COLLEGES	213.3	260.0	225.0	254.5	325.3	288.3	316.2	432.2	547.7	540.7	566.1
FFRDCS ADMINISTERED BY UNIVERSITIES	370.0	362.1	370.1	415.2	509.6	512.8	656.5	610.8	710.4	739.2	747.3
OTHER NONPROFIT INSTITUTIONS 2/..	335.5	326.9	393.3	406.4	461.2	446.5	500.1	662.0	707.3	740.2	780.0
ALL OTHER PERFORMERS	56.6	128.0	196.9	144.4	133.0	134.5	150.7	192.8	247.9	310.8	309.2

1/ FEDERAL INTRAMURAL ACTIVITIES COVER COSTS ASSOCIATED WITH THE ADMINISTRATION OF INTRAMURAL AND EXTRAMURAL PROGRAMS BY FEDERAL PERSONNEL AS WELL AS ACTUAL INTRAMURAL PERFORMANCE.

2/ INCLUDES FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTERS (FFRDCS) ADMINISTERED BY THIS SECTOR.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-124. FEDERAL OBLIGATIONS FOR TOTAL RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL FIELDS	5,249	5,591	5,646	6,216	6,841	7,616	8,604	9,725	10,673	11,803	12,938
LIFE SCIENCES	1,595	1,847	1,929	2,265	2,462	2,639	3,016	3,430	3,850	4,187	4,432
PSYCHOLOGY	108	117	108	133	138	138	156	193	202	222	249
PHYSICAL SCIENCES	916	1,004	986	1,028	1,119	1,266	1,560	1,680	1,822	1,980	2,263
ENVIRONMENTAL SCIENCES	537	567	585	633	731	766	908	1,028	1,103	1,250	1,329
MATHEMATICS AND COMPUTER SCIENCES	127	146	133	136	151	167	211	235	257	282	353
ENGINEERING	1,570	1,460	1,413	1,575	1,765	2,068	2,125	2,446	2,623	2,963	3,246
SOCIAL SCIENCES	304	306	298	291	302	393	449	507	528	560	602
OTHER SCIENCES, NEC	93	145	195	154	173	178	180	206	287	359	436

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-125. FEDERAL OBLIGATIONS FOR BASIC RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL FIELDS	1,946	2,165	2,193	2,339	2,536	2,700	3,191	3,619	4,097	4,509	4,932
LIFE SCIENCES	745	870	875	1,022	1,104	1,206	1,372	1,572	1,871	2,035	2,176
PSYCHOLOGY	45	52	46	48	59	43	54	80	71	78	86
PHYSICAL SCIENCES	576	618	612	633	692	710	865	917	1,022	1,123	1,227
ENVIRONMENTAL SCIENCES	271	279	284	298	288	300	395	454	463	509	530
MATHEMATICS AND COMPUTER SCIENCES	51	63	57	48	58	69	79	91	96	108	130
ENGINEERING	171	187	206	192	237	243	306	344	395	443	521
SOCIAL SCIENCES	70	80	79	73	74	86	95	124	130	142	155
OTHER SCIENCES, NEC	16	16	36	26	26	43	26	35	50	70	78

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-126. FEDERAL OBLIGATIONS FOR APPLIED RESEARCH, BY FIELD OF SCIENCE: FISCAL YEARS 1971-81

(MILLIONS OF DOLLARS)

FIELD OF SCIENCE	1971	1972	1973	1974	1975	1976	1977	1978	1979	ESTIMATES	
										1980	1981
TOTAL, ALL FIELDS	3,303	3,426	3,454	3,877	4,305	4,915	5,413	6,105	6,576	7,295	8,006
LIFE SCIENCES	850	977	1,054	1,244	1,358	1,433	1,644	1,858	1,980	2,151	2,256
PSYCHOLOGY	62	64	62	85	79	96	103	112	131	144	163
PHYSICAL SCIENCES	340	386	374	395	427	556	695	763	800	858	1,036
ENVIRONMENTAL SCIENCES	266	288	302	335	443	466	514	574	640	741	798
MATHEMATICS AND COMPUTER SCIENCES	75	83	76	88	94	98	132	144	161	174	223
ENGINEERING	1,399	1,274	1,207	1,383	1,529	1,825	1,818	2,102	2,228	2,520	2,725
SOCIAL SCIENCES	233	226	219	218	229	306	353	383	398	418	447
OTHER SCIENCES, NEC	77	129	159	129	148	135	154	171	237	289	359

SOURCE: NATIONAL SCIENCE FOUNDATION.

TABLE C-127. FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT, BY GEOGRAPHIC DIVISION AND STATE:
FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL	15,354.6	[illegible]	15,239.6	16,261.8	16,486.1	16,990.7	18,542.3	20,247.4	23,373.7	25,619.3	27,916.3
NEW ENGLAND	1,085.7	[illegible]	1,145.0	1,259.8	1,254.4	1,561.8	1,650.5	1,716.2	1,963.7	2,231.1	2,595.1
CONNECTICUT	223.6	[illegible]	149.9	169.2	193.9	233.7	269.7	239.4	291.3	299.3	323.4
MAINE	14.3	13.3	13.6	16.3	9.6	10.5	11.9	15.6	19.3	25.4	23.1
MASSACHUSETTS	775.0	760.9	883.2	961.2	953.6	1,188.3	1,228.6	1,284.9	1,474.4	1,693.3	2,062.3
NEW HAMPSHIRE	31.0	27.3	34.0	21.5	30.6	29.3	33.6	34.7	32.6	68.7	94.1
RHODE ISLAND	32.8	29.9	50.5	68.9	59.3	74.9	75.1	101.8	110.1	120.3	140.7
VERMONT	9.0	9.5	13.7	22.8	17.5	25.1	31.6	39.7	36.6	23.7	36.5
MIDDLE ATLANTIC	2,436.1	2,516.0	2,413.5	2,481.0	2,206.7	2,160.2	2,281.3	2,439.1	2,608.1	2,802.2	3,112.3
NEW JERSEY	708.9	741.7	745.1	763.1	645.2	473.8	442.0	495.7	566.3	522.5	649.3
NEW YORK	1,107.0	1,235.6	1,119.5	1,075.6	932.6	1,026.3	1,058.6	1,107.4	1,204.3	1,284.1	1,363.1
PENNSYLVANIA	620.3	538.8	548.9	642.3	628.8	660.1	780.7	836.0	837.5	995.7	1,099.9
EAST NORTH CENTRAL	1,044.3	1,038.8	1,121.7	1,179.6	1,082.8	1,263.8	1,377.3	1,439.5	1,726.3	2,010.4	2,097.8
ILLINOIS	251.2	239.6	249.1	291.0	287.6	325.4	371.3	414.3	517.2	564.3	547.2
INDIANA	108.8	91.9	74.6	100.5	82.9	95.0	92.8	92.4	102.8	108.1	122.0
MICHIGAN	167.4	162.8	187.3	186.3	153.8	196.6	248.9	222.2	316.6	367.8	264.4
OHIO	432.6	457.3	518.1	521.7	478.8	567.3	585.2	627.8	694.9	858.3	1,053.2
WISCONSIN	84.2	87.1	92.6	80.1	79.6	79.6	79.2	82.8	94.8	111.9	111.0
WEST NORTH CENTRAL	328.5	475.4	786.0	906.0	830.8	607.4	574.0	681.6	974.8	1,250.7	1,277.8
IOWA	34.2	32.7	32.9	37.9	38.5	46.5	47.8	48.5	60.1	68.3	84.9
KANSAS	39.6	16.6	24.3	31.3	30.4	29.4	32.8	32.1	36.3	106.6	136.3
MINNESOTA	89.3	109.3	102.8	127.0	120.2	106.9	123.2	153.3	186.5	177.7	202.8
MISSOURI	[illegible]	291.2	596.9	679.5	608.1	387.0	330.0	404.3	639.6	827.3	778.9
NEBRASKA	11.3	10.6	10.4	11.7	13.4	14.7	20.3	21.4	24.5	33.5	31.3
NORTH DAKOTA	6.8	8.9	9.1	10.5	9.5	10.5	13.0	14.8	19.3	28.3	33.4
SOUTH DAKOTA	5.4	6.1	9.6	8.1	10.7	12.4	6.8	7.3	8.5	9.1	10.2
SOUTH ATLANTIC	2,961.3	2,899.3	3,228.3	3,560.6	3,706.0	3,752.8	3,993.2	4,228.7	4,879.6	5,288.7	5,726.9
DELAWARE	16.1	16.3	13.0	17.4	40.8	10.4	10.0	8.0	15.3	11.1	14.4
DISTRICT OF COLUMBIA	444.3	468.5	481.9	462.1	490.0	552.3	580.3	570.3	729.8	792.3	769.4
FLORIDA	884.5	824.8	890.4	1,022.5	952.0	783.2	796.8	788.3	919.2	947.6	1,017.3
GEORGIA	276.8	72.3	78.8	71.9	66.8	70.9	81.0	92.3	111.2	155.7	184.4
MARYLAND	961.8	1,063.4	1,201.2	1,318.1	1,434.8	1,528.9	1,610.3	1,811.2	2,031.4	2,126.0	2,359.8
NORTH CAROLINA	58.5	63.9	82.7	83.3	101.7	110.0	116.9	139.1	154.7	192.3	220.9
SOUTH CAROLINA	17.1	17.8	23.4	26.3	23.7	28.8	24.6	30.8	67.2	118.3	114.3
VIRGINIA	286.3	352.8	424.9	529.6	567.9	642.3	726.8	751.5	800.2	872.1	940.3
WEST VIRGINIA	16.0	19.6	32.1	29.4	28.2	25.9	46.5	37.2	50.6	73.3	107.2
EAST SOUTH CENTRAL	597.5	599.7	618.3	638.9	681.5	726.7	745.6	885.2	1,131.9	1,277.1	1,347.3
ALABAMA	358.4	357.2	360.0	359.0	376.5	377.4	363.1	374.4	433.7	483.7	559.6
KENTUCKY	21.4	20.4	23.1	32.1	38.1	31.3	35.2	51.0	56.6	62.1	43.0
MISSISSIPPI	26.0	28.3	46.7	60.7	57.5	76.3	57.9	71.6	95.4	87.1	100.7
TENNESSEE	191.6	193.8	188.5	187.1	209.5	241.7	289.4	388.2	546.3	644.3	644.1
WEST SOUTH CENTRAL	894.3	834.9	733.1	798.9	794.0	772.1	874.2	1,021.9	1,127.3	1,389.0	1,454.2
ARKANSAS	7.4	9.8	20.8	13.2	16.6	14.2	23.3	26.5	24.3	42.4	37.3
LOUISIANA	171.8	146.5	90.1	103.6	91.6	75.7	101.8	126.1	156.5	162.7	209.1
OKLAHOMA	20.1	29.5	26.3	29.1	34.8	29.9	34.5	32.1	48.2	105.0	70.1
TEXAS	695.0	649.1	595.9	653.0	651.0	652.2	714.5	837.2	898.3	1,078.9	1,137.7
MOUNTAIN	1,136.7	1,137.7	1,127.4	1,214.4	1,290.6	1,213.0	1,281.0	1,400.4	1,727.3	2,077.9	2,262.7
ARIZONA	79.2	72.8	68.7	89.9	94.8	99.5	116.3	122.5	142.5	163.4	201.4
COLORADO	264.4	274.1	264.2	369.1	410.8	323.3	267.9	248.6	324.2	393.2	442.2
IDAHO	69.6	75.0	75.3	75.9	81.8	52.2	67.2	72.7	119.8	107.0	147.1
MONTANA	8.3	11.6	17.6	19.0	19.9	13.6	28.4	29.8	47.8	27.5	41.6
NEVADA	232.3	190.9	159.0	140.3	143.1	112.5	150.0	179.7	184.3	196.7	222.1
NEW MEXICO	426.3	445.0	458.7	451.5	462.8	532.0	554.8	626.3	751.4	987.4	955.5
UTAH	49.8	61.1	55.8	58.9	66.7	68.7	80.1	101.5	133.2	161.8	211.6
WYOMING	6.8	7.2	8.1	9.9	10.7	11.0	16.3	19.4	24.2	40.8	41.0
PACIFIC	4,813.5	4,404.1	4,004.9	4,158.2	4,562.2	4,864.3	5,692.5	6,369.4	7,148.2	7,208.1	7,855.6
ALASKA	68.6	43.2	58.2	46.0	41.8	25.3	36.4	37.6	38.1	48.7	45.9
CALIFORNIA	4,289.8	3,871.1	3,295.4	3,473.1	3,840.2	4,075.7	4,839.6	5,496.1	6,109.1	6,141.1	6,834.0
HAWAII	37.7	43.8	38.3	47.4	47.9	53.1	43.0	45.5	36.9	44.6	40.8
OREGON	36.1	33.8	41.9	53.7	64.3	59.9	79.0	84.6	84.9	95.3	100.1
WASHINGTON	381.2	412.2	571.2	537.9	567.9	650.4	694.6	705.6	879.1	878.3	864.8
OUTLYING AREAS	11.6	17.3	18.6	18.4	19.7	19.6	28.8	22.4	47.8	38.7	39.4
OFFICES ABROAD	45.1	56.8	42.9	46.1	47.4	49.1	43.9	43.0	38.6	45.9	57.7

NOTES: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D OBLIGATIONS IN THAT YEAR.

(2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION

TABLE C-128. FEDERAL OBLIGATIONS FOR R&D PLANT, BY GEOGRAPHIC DIVISION AND STATE: FISCAL YEARS 1969-79

(MILLIONS OF DOLLARS)

DIVISION AND STATE	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979
TOTAL	663.5	519.6	586.0	595.6	757.5	749.8	801.0	799.2	1,334.0	1,262.1	1,393.3
NEW ENGLAND	28.3	15.0	15.7	24.5	15.5	17.7	22.7	22.4	36.1	34.9	58.2
CONNECTICUT	1.4	2.9	1.5	2.7	2.4	5.2	3.8	1.9	3.9	2.3	12.3
MAINE	.1	.1	-	.4	*	.2	*	*	.1	.1	.1
MASSACHUSETTS	25.5	10.7	9.7	16.1	8.4	9.5	11.0	14.0	24.4	23.7	36.9
NEW HAMPSHIRE	.1	*	2.0	1.5	.4	1.1	2.9	2.0	2.4	1.3	5.4
RHODE ISLAND	.9	1.3	2.1	2.8	4.2	.7	4.9	4.5	5.3	2.4	3.5
VERMONT	.4	*	.4	1.1	.1	1.0	-	-	-	-	*
MIDDLE ATLANTIC	76.1	51.5	55.7	74.1	99.7	101.4	76.8	70.6	133.9	189.3	170.7
NEW JERSEY	7.8	5.6	5.0	14.9	5.3	2.5	11.5	22.1	64.8	96.7	64.8
NEW YORK	43.7	26.7	33.9	21.9	81.8	77.1	46.4	37.5	61.0	63.8	59.4
PENNSYLVANIA	24.6	19.2	16.8	37.3	12.6	21.8	18.9	11.0	8.1	28.8	46.5
EAST NORTH CENTRAL	86.4	119.9	100.1	85.5	129.7	69.7	48.3	66.5	114.6	108.7	96.4
ILLINOIS	42.0	94.7	85.2	68.1	84.3	42.9	29.6	45.2	52.0	72.9	61.9
INDIANA	.9	.4	.8	.5	.3	.1	.1	.8	.6	.4	.7
MICHIGAN	5.1	3.8	.9	2.9	4.8	.2	.6	2.0	1.1	1.9	3.0
OHIO	32.8	20.3	10.1	13.0	39.1	19.6	15.1	13.6	60.4	23.9	28.0
WISCONSIN	5.7	.6	3.1	1.0	1.1	6.9	2.9	4.9	.5	9.6	2.9
WEST NORTH CENTRAL	12.7	9.3	10.8	8.1	4.7	26.9	5.8	3.6	3.6	7.6	12.4
IOWA	1.8	1.2	1.5	.8	1.1	.5	.7	1.1	1.5	2.3	2.2
KANSAS	3.9	.1	.2	.1	.2	.1	*	.1	.1	.2	*
MINNESOTA	1.1	.8	4.1	1.3	.5	23.4	.1	.5	.4	1.2	.8
MISSOURI	1.3	4.2	2.2	.7	.3	.8	4.1	.5	.9	1.2	5.6
NEBRASKA	3.5	.9	1.2	1.6	1.0	1.5	.4	1.0	.2	.3	.8
NORTH DAKOTA	.6	.1	.1	.5	.1	.2	.4	.5	.6	2.3	1.4
SOUTH DAKOTA	.5	2.1	1.5	3.1	1.5	.4	-	-	*	.1	[illegible]
SOUTH ATLANTIC	115.7	72.3	77.0	114.1	142.9	140.5	173.7	166.9	358.5	233.4	202.0
DELAWARE	*	*	-	*	*	.1	.1	-	*	*	-
DISTRICT OF COLUMBIA	8.3	6.4	5.1	9.0	31.5	1.1	7.9	21.4	11.3	11.1	22.0
FLORIDA	57.5	33.2	30.8	47.7	40.1	51.7	96.0	76.3	155.2	81.1	46.0
GEORGIA	2.3	2.0	2.3	1.8	.7	.1	.5	.2	1.2	1.8	1.0
MARYLAND	30.6	20.3	29.7	36.1	51.4	60.8	40.1	36.7	80.4	82.7	64.3
NORTH CAROLINA	4.5	3.1	.4	6.0	4.8	4.1	.3	.6	66.8	3.5	3.9
SOUTH CAROLINA	3.2	1.8	1.3	1.2	3.4	7.7	3.8	3.3	2.2	6.9	9.7
VIRGINIA	4.0	3.5	7.0	11.3	7.0	14.0	23.1	11.6	24.7	29.3	42.0
WEST VIRGINIA	5.3	1.9	.4	.9	4.2	.8	1.9	16.7	16.7	17.0	13.1
EAST SOUTH CENTRAL	30.7	16.8	18.3	27.7	55.4	54.7	52.5	76.9	54.7	55.9	65.1
ALABAMA	6.2	1.8	3.9	6.7	5.1	5.6	8.4	12.3	5.3	6.5	2.6
KENTUCKY	.4	.8	.3	.1	*	.2	-	-	-	*	2.9
MISSISSIPPI	.2	.8	.4	.4	13.0	15.2	4.8	4.1	11.5	6.0	3.8
TENNESSEE	24.0	13.4	13.7	20.5	37.4	33.6	39.3	60.5	37.8	43.4	55.8
WEST SOUTH CENTRAL	8.0	9.4	11.7	11.2	11.9	8.2	8.9	11.1	17.2	34.6	27.3
ARKANSAS	-	.1	*	.1	.2	.4	.7	.9	2.8	.9	.2
LOUISIANA	.5	1.1	5.1	.5	.4	1.6	.3	2.3	3.6	20.9	16.7
OKLAHOMA	.9	.1	.1	.2	.1	.1	.3	.2	.4	1.0	.6
TEXAS	6.5	8.1	6.5	10.4	11.1	6.1	7.6	7.8	10.4	11.8	9.7
MOUNTAIN	135.3	112.4	102.4	84.1	95.5	86.2	104.9	123.8	195.6	210.2	254.9
ARIZONA	2.0	1.6	1.3	2.3	.5	3.6	1.3	2.7	1.6	33.9	35.3
COLORADO	4.3	5.2	8.2	16.2	21.9	7.9	4.9	12.0	12.7	11.6	9.7
IDAHO	31.0	23.0	20.3	5.4	6.3	11.0	16.2	19.7	26.1	35.6	41.8
MONTANA	.5	*	.5	.1	.1	.1	.3	.1	.8	*	1.2
NEVADA	17.1	17.2	16.9	17.5	14.4	9.2	11.7	11.7	14.8	18.5	24.2
NEW MEXICO	77.5	63.6	54.1	41.6	51.6	50.3	68.1	76.6	137.9	101.7	138.6
UTAH	2.9	1.0	.6	1.0	.5	4.1	2.1	.8	1.5	8.0	2.9
WYOMING	.1	.6	.4	*	.2	*	.3	.2	.3	.9	1.2
PACIFIC	145.0	104.4	178.3	156.3	176.7	243.8	305.9	256.1	417.8	381.9	489.2
ALASKA	3.0	.5	1.4	.7	.5	.1	.9	.8	.6	.7	.8
CALIFORNIA	121.2	85.9	119.8	123.4	128.0	141.1	151.1	147.3	303.3	259.5	400.2
HAWAII	.8	.5	2.2	.9	.4	.4	6.2	2.8	.5	.7	.5
OREGON	1.5	2.3	1.2	1.2	.1	.1	1.2	2.0	*	2.6	.9
WASHINGTON	18.6	15.3	53.7	30.2	47.8	102.1	146.5	103.1	113.4	118.3	86.8
OUTLYING AREAS	4.6	3.5	5.2	1.8	1.4	.6	.5	.3	.1	1.7	.5
OFFICES ABROAD	20.7	5.3	10.6	8.2	24.1	.2	1.1	1.0	1.9	3.9	7.1

* INDICATES AMOUNT LESS THAN $50,000.

NOTES: (1) FOR EACH YEAR, THE DATA SHOWN INCLUDE THE OBLIGATIONS OF THE 10 OR 11 MAJOR R&D-PLANT-SUPPORT AGENCIES IN THAT YEAR, AND REPRESENT 97 PERCENT OR MORE OF THE TOTAL FEDERAL R&D PLANT OBLIGATIONS IN THAT YEAR.

(2) ALTHOUGH THE NON-GEOGRAPHIC HISTORICAL TABLES INCORPORATE CORRECTIONS TO PREVIOUSLY REPORTED DATA THAT HAVE BEEN SUBMITTED BY THE REPORTING AGENCIES, CORRESPONDING CORRECTIONS TO THE GEOGRAPHIC DISTRIBUTIONS ARE RARELY OBTAINABLE.

SOURCE: NATIONAL SCIENCE FOUNDATION

186